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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

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ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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[2] The following is a Table of Contents to assist review of the present application:

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10 ABSTRACT

[3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important
5 drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of
10 GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., Curr. Opin. Cell Biol. 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional
15 features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three
20 extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern.
25 Watson, S. and S. Arkininstall, The G protein Linked Receptor Facts Book, Academic Press, San Diego, CA (1994); Bolander, F. F. Molecular Endocrinology, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and
30 varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, 5 gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are 10 classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. 15 The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to 20 the transduction and amplification of the original extracellular signal. Baldwin, J.M., Curr. Opin. Cell Biol. 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis 25 pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., Nature 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in 30 human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., FASEB J., 9:745-754 (1995); Arvanitakis et al., Nature, 385:347-350 (1997); Murphy, Annu. Rev. Immunol. 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661
5 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

- [20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
- 10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
- 15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8)
- 20 tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

- [22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
- 25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

- 30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their
5 teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for
20 millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to
25 certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of
30 the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
30 183, 185, 187, 189, 191, 192, 194, 200, 202, 206, 208, 214, 216, 218, 228, 236, 238, 240, 248, 250, 264, 295, 299, 301, 305, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 347, 349, 351, 361, 365, 367, 369, 371, 377, 379, 385, 387, 389, 391, 397,

423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. See, e.g., Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, e.g., covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "**nonconservative**" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "**Antagonist**" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] **"Biologically active" or "biologically functional,"** when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] **"Annotation"** refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] **"BLAST"** refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] **"BLASTP"** refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] **"BLASTX"** refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] **"Buffer"** refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] **"CDS"** refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] **"Clone"** in molecular biology refers to a vector carrying an insert DNA sequence.

[59] **"Cloning"** in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (*e.g.*, plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (*e.g.*, a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

[67] "Conservative changes" to an amino acid sequence, see Analog.

[68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.

[69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.

[70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L).
10 By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).

[71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.

20 [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.

[73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.

[74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.

30 [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] "Humanized antibody" refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] "Identity," see Homology.

[84] "Immunocytochemistry" refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] "Immunohistochemistry" refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] "Immunolocalization" refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] "Immunologically active" refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

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cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (e.g., in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (e.g., the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] "Oligonucleotide" refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] "Operably linked" or "operably connected" indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] "Orphan receptor" refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] "PCR" or "polymerase chain reaction" refers to an *in vitro* method that uses oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] "Plasmids" refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will be apparent to the ordinarily skilled artisan in view of the present application.

[107] **"Polynucleotide encoding a polypeptide"** indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

5 [108] **"Portion"** or **"fragment"** with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the

10 amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

15 [109] **"P-value"** is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] **"Receptor"** refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect

20 that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

25 [111] **"Recombinant"** refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic

30 oligonucleotide process.

[112] **"Sample"** is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to

5 having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal

10 cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma,

15 endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis,

20 rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma),

25 septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or

30 disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

10

C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (i.e., peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (*e.g.*, fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- 15 [136] The antigenic peptides and proteins or polypeptides containing them can be purified by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 [139] **SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 [141] **LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. See U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] **ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):**

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] **IMMUNOFLUORESCENCE ASSAY:**

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, 5 the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are 10 the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one 15 end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or 25 the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to 30 screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., Semin. Cancer Biol., 1(3):217-225 (1990); Beck et al., Semin. Cancer Biol., 1(3):181-188 (1990); Niman, Immunol. Ser., 53:189-204 (1990); Endo, Nippon Igaku Hoshasen Gakkai Zasshi (Japan), 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, 5 epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic 10 peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or 30 soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N -dioctadecyl- N',N' -bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

- [180]** Monoclonal antibodies are obtained from a population of substantially
5 homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.
- 10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).
- [182]** The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.
- [183]** Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or
5 enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole,
10 preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may
15 be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (e.g., by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli*
20 cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

30 [188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 $V_{H\alpha}$, $V_{H\beta}$, $V_{H\gamma}$, $V_{H\delta}$, C_{H1} , V_L , and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeyen et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

[214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

[218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using
10 chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is
15 then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

[219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992)
20 describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers
25 (Suppl.) 7:45-50 (1992).

[220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are
30 linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., *Bio/Technology* 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., *J. Immunol. Meth.* 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., *E.M.B.O. J.*, 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. See US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (e.g., less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (e.g., cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (e.g., alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (e.g., a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (e.g., less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (e.g., a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 Nature, 144:945 (1962); David et al., Biochemistry, 13:1014 (1974); Pain et al., J. Immunol. Meth. 40:219 (1981); and, Nygren, J. Histochem. and Cytochem. 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, Monoclonal Antibodies: A Manual of Techniques, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249]. THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious
5 diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol,
10 A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic
15 polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronics, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in
25 macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or
30 following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

5 **[257]** The route of antibody administration is in accord with known methods, *e.g.*, injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-POLYMERS:
20

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 $\mu\text{g/kg}$ to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR
20 ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.
10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of
5 antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO® TBST (Tris Buffered Saline Containing
10 Tween-S3306), 10X Concentrate, DAKO® Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO® TBS (Tris Buffered Saline-S1968), and DAKO Tween® (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO® TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c)
15 replace lid and shake 10 to 20 times, d) pour diluted DAKO® TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO® Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to
20 10L mark with deionized H₂O, b) add 2 envelopes of DAKO® TBS, c) add 5 ml of DAKO TWEEN®, and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

25 [284] Solutions for antibody detection are prepared using Vector® Biotinylated antibody (BA series), Vectastain® ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector® Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10
30 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

15	Xylene 5 Minutes
	Xylene 5 Minutes
	Xylene 5 Minutes
	100% Alcohol 2 Minutes
	100% Alcohol 2 Minutes
	100% Alcohol 1 Minute
20	95% Alcohol 2 Minutes
	95% Alcohol 2 Minutes
	70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide
15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679,
20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086,
25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide
 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563,
 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009,
 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

- a) an isolated antibody according to any one of claims 7-14, and

b) at least one of a reagent or a device for detecting the antibody.

16. An assay for the detection of a particular GPCR in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 1-5,

b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.

10 17. The assay of claim 16 further comprising the step of binding the isolated
antigenic peptide or the antibody to a solid substrate.

18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.

19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.

15 20. The assay of any one of claims 15-19 wherein the assay is selected from the
group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.

21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.

22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.

23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.

24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.

30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

38. The method of any one of claims 27-36 wherein the antigenic peptide has a
10 length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

41. The method of any one of claims 27-40 wherein the polypeptide is a human
15 protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

46. An isolated antigenic peptide comprising a short antigenic amino acid
25 sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim
30 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and

b) at least one of a reagent or a device for detecting the antibodies.

49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.

50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.

10 51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.

52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.

53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.

54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.

55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:

a) an isolated antibody according to any one of claims 49-53, and

b) at least one of a reagent or a device for detecting the antibody.

25 56. An assay for the detection of a candidate polypeptide in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 43-47,

b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and

30 c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Latrophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLR CPGSDVIMIE SANYGRITDDK ICDAADPFQME NTDVCPDAF KIMTQRNNR TQCIVVTGSD VFDPDPCGT YKLEIVQYECV PYIFVCPGLT KAIVDSPCIY EAEQKAGAWC KDPLQAADKI YFMPWTPYRT DTLIEYASLE DFQNSRQTTT YKLPNRVDGT GFVVDGAVF FNKERTNRIV KFDLRTRIKS GEAINYANY HDTSPYRWGG KTDIDLAVDE NGLWVYATE QNNGMVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVRSVYQD NESETGKNSI DYTYNTRLNR GEYVDVFPFN QYQYIAA VDY NPRDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSITSQKQPM STTVAGSQEG SKGTKPPAV STTKIPITN IFPLPERFCE ALDSKGIKWP QTQRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFAGDVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KL VFIYRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RYVLTDPVLF TLPHDIPDNY FNANCSFWNY SERITMGIYWS TOGCKLVDITN KTRITCACSH LTNFAILMAH REIAYKDGVBH ELLTLVITWV GIVISLVCLA ICIFTFCFR GLQSDRNTIH KNLGNLFIA EFILIGIDK TKYAIACPIF AGLLHFFFLA AFAWMCLGV QLYLMLVEVF ESEYSRKKYY YVAGYLPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTIFIL LNIIFLVTIL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEETI VMAVLTFTFN AFQGVFIF HCALQKKVRK EYKCFRHSY CCGGLPTESP HSSVKASTTR TSARYSSGTQ SRIRRMWNTD VRKQSESSFI SGDNSTSTL NQGHSLNNAR DTSAMDTLPL NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLELTL VPVIGSSS EDDAIVADAS SLMHSNDNPGLELHKELEAP LIPQRTHSL YQPQKKVKSE GTDSYVSQLT AEAEDHLQSP NRDSL YTSMP NLRDSPYSPES SPDMEEDLSP SRRSENEIY YKSMNPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcggctgg gagacagcga gccagagct ggggtgtgt gcgagagcca cggcgggggc tggggcgagc gggcggcag gctgaaggct ggcctctgca acctgaaga gccgctgcat tgagagggcca gggacagggga gccgggtgcg atggcagagc gcggccccc cgcctgcgc gggccggccc ggcctggcctg agccgcgcga gggcgggggc tgcctctgcg cgtccatgga gcagcgggaa gggcgaaact ccggagcgcc gcgtccctgc gcgctgcgg gcgactgcig aagggggcca gcccgcgcgg accgcggagg aagagacccc cgtccagcc cgcagggcccgc ctgccgggg gcggcggggg acalcggagg gcagcggagg gagcagcggc gcgggagagg ccggcgcggg agggcgccgc agcaatggcc gggcggcag ggcctctgcg ctctcgcgc ctggggcgcg tgggtcgcgc cggcccgagc ggcgcggcgc cgcctctgcg cgcggcgcc tgcagctgcg acggcgacgc tcgggtgac tgcctcgagg aggggctgac gggcgtgccc gaggggctca gcgcttcac ccaagcgcig gataicagta tgaacaacat tactcagtg cagaagagc catttaagaa ctctctt ctgaagagc tacaatggc gggcaacgac ctctctta tcacccaaa ggcctgtct ggggtgaaa aactcaaaat tcaacgctc cagaataac agtgaataac agtaccagc gaagccattc gaggggctgag tgcctgtag tcttgcgt tagalggcaa ccatallacc tcatgcccg aggcaggtt tgaaggactt</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490	<p>SLMHSNDNPGLELHKELEAP LIPQRTHSL YQPQKKVKSE GTDSYVSQLT AEAEDHLQSP NRDSL YTSMP NLRDSPYSPES SPDMEEDLSP SRRSENEIY YKSMNPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcggctgg gagacagcga gccagagct ggggtgtgt gcgagagcca cggcgggggc tggggcgagc gggcggcag gctgaaggct ggcctctgca acctgaaga gccgctgcat tgagagggcca gggacagggga gccgggtgcg atggcagagc gcggccccc cgcctgcgc gggccggccc ggcctggcctg agccgcgcga gggcgggggc tgcctctgcg cgtccatgga gcagcgggaa gggcgaaact ccggagcgcc gcgtccctgc gcgctgcgg gcgactgcig aagggggcca gcccgcgcgg accgcggagg aagagacccc cgtccagcc cgcagggcccgc ctgccgggg gcggcggggg acalcggagg gcagcggagg gagcagcggc gcgggagagg ccggcgcggg agggcgccgc agcaatggcc gggcggcag ggcctctgcg ctctcgcgc ctggggcgcg tgggtcgcgc cggcccgagc ggcgcggcgc cgcctctgcg cgcggcgcc tgcagctgcg acggcgacgc tcgggtgac tgcctcgagg aggggctgac gggcgtgccc gaggggctca gcgcttcac ccaagcgcig gataicagta tgaacaacat tactcagtg cagaagagc catttaagaa ctctctt ctgaagagc tacaatggc gggcaacgac ctctctta tcacccaaa ggcctgtct ggggtgaaa aactcaaaat tcaacgctc cagaataac agtgaataac agtaccagc gaagccattc gaggggctgag tgcctgtag tcttgcgt tagalggcaa ccatallacc tcatgcccg aggcaggtt tgaaggactt</p>	A	Homo sapiens

gttacgttac gggatctgtg gcttggatgac aacagcttga cggaggggtgccc tggacacccc ctacgcaalc tggccaccc
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 caagggtgtt gcttggaaaca ggtttctac taccgtctgt gcalgtact acatttggc aggtcagc gggcaacctga ctgttggcga
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 ccaagacact gagggttact ggtccgactg tggcacacag tggggccact ctgtattatgc agatgaaga gattcccttg
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 taattagac gaaacggggga gtaattatga caggaagtag ttaattat ttcttagtga gcttgggtat ctgaaacctg tgcattaaa
 tggaaattc calactt cccatactia ttittttaa aagggctctat tcaatagctc agaaagttgaa ctctgggttaa acaagataat

528	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	<p>atgtatttaa taaaaataga agaagaaaga ataaagctta gtctgtgtc ttataaait aaaaatttta ctgatcc accatagggc tttagacct taciagggtg gagcttaaa gttataatg ttcaatag ttitigaaca gtgtgctaaa tcaatagcaa accacagcc atattagta tictagaat actaaaaaa tccagctaga tgcagttia ataataaac tgiacatac gtcatalaa tgaatttta tcttatgaa atatttta gaacacaagt tgggaatgt ggcttcgtt cattcgtt aataaagct accctctaaa ctatagggc tgcagtagc agactgttaa attggtgtt atatacttt tgcaltgaa atagctttg tigtacatg tcaagttaa aaaaacagaa tcttgata tcaaatcat gtagttgtg taaaagtgg gaagattta ttacagttt tgaatait tgaaggcca actattaca agtttaaaa atgtcata tgiatalia cacatcat aatatataa tcaatactg tgaagaaact cctaataaa aggttttuc caaaatcag gttatgaaa attttcatt ttattcatt aaaaactaga ataacagata tataaagtg ttaactttg tgcatalgg tatgaatac aatatgtac tcaagtgtt gaattataa agtttctaga aagcaaaaa a</p>	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	<p>MPGPLGLLCF LALGLLSAG PSGAAPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLSFIHPKA LSGLKELKVL TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPEDSFE GLVQLRHLWL DDNSLTVPV HPLSNLPTLQ ALTLALNKHIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQC FDGLDNLETL DLSYNLGEF PQAIRPSSL KELGFHSNSI SVIPDGAFDG NPLLRTHLY DNPLSFVGN SASHNLSDLHS LVIRGASMVQ QFPNL TGTVH LESLTLGTK ISSIPNNLC EQKMLRTL DL SYNIRDLPS FNGCHALEEI SLQRNQIYQI KEGTFQGLIS LRILDLSRNL IHEHSRAFA TLGPITNL DV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNL R SLSVPYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANTSTL ENEEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIL VALFFNLLV LTTFASCTSL PSSKLFIGLI SVSNLFMGIY TGLTFLDAV SWGRFAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALS AF LGATVAGCFP LFRGEYSAS PLCLPFTGE TPSLFTVT LLLNSLAFLL MAVYTKLYC NLEKEDLSEN SQSSMKHVA WLFTNCFP CPVAFSFAP LITAISPE IMKSVTLIFF PLPACLPVL YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYYDCGMYSH LQGNLTVCD CEFLLTKPV SCKHLIKSHS CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p> <p>aacttgaaag gacgcgtct gcccaccag aacacctct caagcactt gagtgaccac ggcttgcaag ctgggtggctg gcccccgag tccgggctc tgaagcacgg ccgtcgcactt aagcgttga tctgttacc tggagacct ctgagctc accgtctact tctgcgctg ctctgcaca gagccgggc gaggacctt ccaggatga ggtcccgaa acgaccggcc cggacaacgc gacgtgcag atgtgcgga acccgcgcat cgcgtgtggcc ctgcccgtgg tgtactgct gggtggcggc gtcagcatcc cgggcaacct ctctctctg tgggtgtgt gcccggcat gggtggcaga tcccgtcgg tcatctcat gataacctg agcgtacgg acctgatgt ggcaagcgtg ttgccttc aatctacta ccattgcaac agccaccat gggtattcgg ggtgtcgtt tgaacgtgg tgaaccgtgg cttttaccga aacatgtatt ccagcatct caccatgacc tgiatcagcg tggagcgtt cctgggggic ctglaaccg tcaagctcaa ggcgtggcgc cgcgtcgtt acggtggggc cgcgtgtgca gggagcctgg tgcgtctct gaccgcctg tcccgcctg cgcgcaccga tctacclac ccgggtcag ccctggggcat catcacctgc ttgacgtcc tcaagtgagac gtagtccccc aggtgtggcca tgggtggccgt gttctcttc accatctca tctgtgtt cctacccc ttgtgtatca ccgtgtgtg ttacagggcc accatctca agctgttgcg cagggaggag gcgcacggcc gggagacagcg gtagggcgcgg gtagggcgcgg ctgtggcc ttgtcagcc ttgtcagcc</p>	A	Homo sapiens

530	160435	LS160435 Receptor	LR80		<p>gcttcgcccc caacaattc gtgtctctgg cgcacatcgt gaggccgcttg ttctacggca agagctiacta ccacgtgtac aagctcacgc tgtgtctcag ctgcctcaac aactgtctgg acccgltgt ttactattt gctgcgggg aattccagct ggccttgccg gaaattgg gctgcggccg ggtgcocaga gacacctgg acacgcccgc cgaagcctc ttctcccca ggaaccagc cgtgtcctcc gaggccgggtg cgcacctga agggatggag gggccacca ggcggcgctt ccaggggcag gagggtgtgt tctgagctcc ggggggcag ctggagagc cgggggcgca ggtggagga tccagggggc catggagaggg ccacgggtgccc agaggttcag ggaagacagc tgcgttctc ccaggcactg cagaggcccg ggggggaaagg gtcocaggc ttatctcic ccaggcactg caggggcacc ggtgaggaag ggtctccagg ctactcag gtagagaaa caagcaagg ccagcagcgc acagggtgt tgtatctg cagagggtgc ctctgctct ctgtgcag ggcaggtgtg tgcaccag ccgggctaatt ttgtattt ttttagtag agctgggtctg tcccccca gctcttaga cactctac accgtccat accggaggat ggalatcaa ccagccccac cggctacccg actgggttc tggatalct ctgtggggcga actgcgagcc cactccag ctctctccc tgcctgacalc gtccttagc acactgccc ataccggag atgggatalc aaccagcccc accgctacc cgcctgggt tctggatc ctctggggc gaactgcgag cccattccc agctcttc ctgtctgaca tgcctctta gtgtggct tggcctctc cattctcic cagggggtct ggtctccga gccgggtgca cgcggaat tctgttatt tcatcagg gacgtgtgt tgcgtgtgt ggaaattct ttacagga gcggcgggg ctctgcaag tcatctc tccgtgccc ctccccca cacacacc ccccgtgc cgaattc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308		<p>MQVPNSTGPD NATLQMLRNP ALAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMNLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS LTMTCISVE RFLGVLPLS SKRWRRRYA VAACAGTWLL LLTALSPLAR TDLTYPVHAL GIITCFDLK WTMLPSVAMW AVLFITFIL LFLPFVITY ACYTATILKL LRTEEAHGRE QRRRAVGLAA VLLAFVTCF APNFEVLLAH IVSRLFYGKS YYHVYKLTLC LSLNNCLDP FVYFASREF QLRRLREYLG RRVPRDILT RRESLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaattcgcc aaagagctt algctctct gaagactgc agcaaggct gctgaggct acagaagata gccccaggt ttggaggtg ttggaatgt gattctaga tcaactgac tgaactggaa tcttgctt atactiacc agctacaa ccttgaggc ttagaatt ttcttca atagcagc atcttact tccctcaaga tgaacaacag tctgtctc tgcaggtt ataaagat ggagccatt acgtattt ttattgt ttctgtt ggaattatg gaagtgtt tgcacctg gctttatc agaagaatc gaatcacagg tgttgagca tctactaat taattgtt acagccgt tctgtctac tctggcata ccagtgaaaa ttgtgtga cttggtgtg gcacttga agctgaagat altocagc caagtaacag cctgctcat ctatcaat atgtattt caattct cttagcatt gtcagatg accgtctc tcaactgaca cagactgca agactiacc aatacaaga ccgggattg ccaaaatgat atcaacgtt ggtgtgctaa tggctctc talaagggt ccaaatatga tgaatccat caaagacalc aaggaaaa caaatgtggg ttgtatggag tttaaaagg aatttgaag aaattggcat ttgtgaca atttcalatg ttagcataa tttaaat tctagccat catthtala tcaattgcc ttgtaattg acagtctac agnaacaaag alaatgaaa ttaccacaa gtgaaaaagg ctctacaa catacttia gtgaccacgg gctacatcat atgttgtt cttaccaca ttgtccgaat cccgtiacc ctgagccaga cagaagatcat aactgattg tcaaccagga ttactct caaagccaaa tgcctcggc tgtgtgcaac ctgtgtgtg atctatct gtactac ctctcaaaag cattccgtc aaaggtcat gaggattt cctaccctaa agagaccaag gctcagaag aaaaataag atgtgaaat aatgcataa agacaggat ttgtgcta ccaattcgg cctactgga ccalaaagt aattatgt ttgaagata aaaaaaaa aaaaaggcc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1		<p>MTNSSFFCPV YKDLPEFTYF FYL VFLVGII GSCFATWAFI QKNTNHRVCS IYLNLLTAD FLLTLALPVK IVVDLGVAPW KLKIFHCQVT ACLTYNMYL SIIFLAFVSI DRCLQLTHSC KTYRQEPGF AKMISTVWWL MVLLIMVPNM MIPIKDIKEK</p>	P	Homo sapiens

Homolog (H963)

533	161024	Protein A	NM_019858	<p> SNVGCMEFKK EFGRNWHLLT NFICVAIFLN FSAILISNC LVIRQLYRNK DNENYPNVKK ALINILLVTT GYICFVPHY IVRIPYTLQ TEVITDCSTR ISLFKAKEAT LLLAVSNLCF DPILYYHLSK AFRSKVTEIF ASPKETKAQK EKLRCENNA gaggagagag ggcggggcgag ctggagccgg caggcagcgg gagcccgaga ggcgcgcgc gggagagcgg tccatlggc agtgcctgggc gcagccggag agagccctgc caggggggcctg agcccccacc ccaaatccct gggggcaltca gaagattct gactggctca gaaccagagg caaagaagagac ctggagattcc cagatagggg accagaaccc cccagccagc ctcatagttg ggaagagtag cagcttgctt gcccacaa ttgcaggagat gcttaaggaa gggcccccgg agtatgaaag ctgaggattg cctctgcctga cctcagct cctccctgc cctctacac tgcctcagc tggggctcac atgcaatgct gagcacctgg gtgagccctgg gggcagccctg cctgcctgaca gggcggaaggat tgggggggac atggggaggt tggagagtg ggcctctggg tggagacctag ccccccccc cacaagctc aaaggggggggg gggggctgag agaggagagc tggggggggg ggcggggggcag agggagggcct cctgcctcc aacgcattgt cctggctggc ctggggggcct cggggggcct gggggggcct cggggggcct ctacgact cggccaagca gcaagagcac aagccacagg agctgcctgt cgttcctga ggcggggcag acatactat ggcagctgtg cccctacca ccttgccgt gggggcagctg cgtgcgaggg cttctccga ctatgactgg aacgagagta tctgcaaggt ctctgtgtcc acctacta cctggcgct ggcacacctg ttacagggct cctccctc ctacatgc atggggatgg tgcctggggc cgtcaactac cgtctcagca accccaagaa ggcagggcagc calgcccgtca tggggcaltg gatggcagc ttactctt ccaactct ccaattggc tggcacaaca acggggagcgt ctactatgcc cggcgctggc agttcatagt ctccagatc gggcctggct ttgggttgg cttagcctc ttgctacttg gggggagatgt catggggctg gctgtgtgg ccatcactt ctacagaca ctgtggggcc gggcccgagg ggcctggcag ggcggggagag tggggggggg tgggggggac aaagcggggg gggcagggggc ctggggggc cggccagctt tggggggatc agccattgtg gggggagagat cccgagggga ggcggggctc tgcctggatg gctcggagtc tggccaagaca tccctcaggg taccacat ggtcagcgcc atcgcttc tctatgact actcagagg gggcccatct tgggtgtgg ctctctcc ctacagtcg actcgcgcc cccctggatg gttgtggctg tctgtgtgg ctccatggca cagacgctgc tgcctggcct ctactatgg tctgcggag gctacggc cgacgtggc acaggtggg agcaatggct gggccatcag tctgagagag atggggagat cga tggggggc tggagagct atgcaaggg ccgagttgc aagttcgtgt ttgagctaa cggagggcaca ggcacagggga ggcgggggaccc cggccagggg aagctgcctg ctggaaggca catgctct cctctctg agagagttcca ctactacag gtcgccctat cccggggctt gtccatgat gagaacaa tctctctac cctcggggaa cagggctctt tctcgcacaa gttgtgtatcc tctgagaca tccggggctt cccagccag agccggggcc tggggggctt tctgagatc ctggggacaa gacacaggtt gggagggcag gaggagagag aagagggctga aggtgggggg ctggggcagcc ttggccaatt ctggagagat ggggttctgg ggtcagggg gggaccccca cgggggtctg gcttctcc ggaagagatc accactica tggalggagac acctggctt cctcgactg cctacagg gcactctt cgtcgccccc gggcactggg cctcagccc cggcgactt ccttgggtc cctcagagag agagccgtt gactcttt ggggactaag gcaaggagag gctgtcctt gacgggggggt gaaagaaatg caagggctg gggagggatcc tggggggcag gcaacccat ctttccag ctgaccctgt gaggccagc agggcctgt aactcaggg agaaagcctg agtggagtaac acctattt ggcggagag agggcagctg cctcagagt ctggggagag gggcgctaga ttgggggtc agagggtt gctctctcc atccaggtga cagatggccc tactcaggt ccatcacc ctagcaatg tattaagtc tgaaggtg ccatgg MARGGAGAE ASLRSNALSW LACGLLALLA NAWILSISA KQKHKPLEL LCLFLAGTHI LMAAVPLTTF AVVQLRRQAS SDYDWNESIC KVFVSTYTL ALATCFTVAS LSYHRMWMVR WPNYRLSNA KKQALHVMG IWMVSVFILST LPSIGWHNNG ERYARGCQF IVSKIGLFG VCFSLLLGG IVMGLVCVAI TFYQILWARP RRARQARRVG GGGGTKAGGP GALGTRPAFE VPAIVVEDAR </p>	Homo sapiens
534	161024	Protein A	NP_062832.1	<p> MARGGAGAE ASLRSNALSW LACGLLALLA NAWILSISA KQKHKPLEL LCLFLAGTHI LMAAVPLTTF AVVQLRRQAS SDYDWNESIC KVFVSTYTL ALATCFTVAS LSYHRMWMVR WPNYRLSNA KKQALHVMG IWMVSVFILST LPSIGWHNNG ERYARGCQF IVSKIGLFG VCFSLLLGG IVMGLVCVAI TFYQILWARP RRARQARRVG GGGGTKAGGP GALGTRPAFE VPAIVVEDAR </p>	Homo sapiens

Accession	Gene	Protein	Species	Sequence
535	Galanin Receptor GalR3	NM_003614	Homo sapiens	<p>161214</p> <p> GKRRSLDGS ESAKTSQVT NLVSAIVFLY DSLTGVPIVL VSFSLKSDS APPWMVLAVL WCSMAQTLLL PSFIWSCERY RADVRTVWEQ CVAIMSEEDG DDDGGDDYA EGRVCKVRFD ANGATGPGSR DPAQVKLLPG RHMLFPPLER VHLYQVPLSR RLSHDETINF STPREPGSFL HKWSSDDIR VLPAQSRALG GPPEYLQQRH RLEDEEDEEE AEGGGLASLR QFLESGVLGS GGGPRPGPGF FREEITTFID ETPLPSPTAS PGHSPPRRPR LGLSPRRLSL GSPESRAVGL PLGLSAGRRC SLTGGEESAR AWGGSWGPGN PIFPQLTL tccagagtcg ccgtctgatg gggagatggc lgalgccac aacalltca tggacagccc aggegagtg gggggcgtgg cagtgccgtg ggctttgcc ctaattcc tgcitggcac agtgggcaat gggcigtgtg tggcagtgct cctgagctt gggccgagtg cctggcagga gcttggcagc accacggacc tggatcct caacttggcg gtggcagac tctgttcat cctgtgtgc gtggcccttc agggcaccat ciacagctg gatgcctggc tcttggggc cctcgtctgc aagcgcgtgc acctgtcat ciactcacc atgtaccca gcagctttac gctggctgt gctcctgtg acaggtiact ggcgtgtgcgg caaccgtgc gctcgcgcgc cctgcgcagc cgcgtiaacg ccgcggccgc agtggggcg gttgtgtctg tggcggcgct ctctcgcg cctiaccia gctactacgg caactgtgc taccggcgcg tggagctctg cgttcccgcc tgggagagacg cgcgcggcgc cgccttggac gtggccact tgcctgcggc clactgtctg cccgtggctg tgggtgagct ggcctacggg cgcacgtctg gcttctgtg ggcggccgtg ggtccgcggc ggcggcgagg cggcgggagggc gacaggggccg cgcggggcgc gccatgtgg cgggtggccg gctctacggc ctctctgggg gtccgaccca cgcgcctalc ctgtgtctt ggtacggcgc ctgccttc agccggcca cctacgctg ccgcctggcc tccacgtgc tggcctacgc caactctgc ctcaaccgc tctctacgc gctcgcctg cgcctcttc cgcgcgcctg cctcgcgcctg tggcgtgtgc ggcgcggacg ccggccaccgt gcccgccgc ccttgcctgc cgtccggccc gctcctcgg gccacaccgg ctgcccggga gacggccggc ctacggggag gctctgtgt ggttggcggc agggccggga gccacgggag ggaaccgtcc acggcgggaga ggcctgcccga ggaccggat aaacctgcc gcttggac cgcctg MADAQNISLD SPGSVGAVAV PVVFAFLFL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA TIYTLDAWLF GALVCKAVHL LIYTMAYASS FTLAAVSVDY YLAVRHPLRS RALRTPNAR AAVGLVWLLA ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP HHALLCFWY GFAFSPATY ACRASHCLA YANSCLNPLV YALASRHFRA RFRRLWPCGR RRRHRARRAL RVRPSSGP PGCPGDARPS GRLLAGGGQG PEPREGPVHG GEAAARGPE atggcgctga ccccgagtc cccgagcagc ttccctggcg tggccggccac cggcagctct gtcggggagc cgcctggcgg ccccaagca accctcaaca gctcttggcg cagcccgacc gagccagct ccttggagga ccttggtgcc acggggacaca ttgggactct gctgtggcc atggcgctgg tggcgcttgg tgggcaacgc taccgttgg tgggtaccctg cgcctccctg cgttgcgggg cctcactga cgtctacgt gtcaacctg cgttggccga cctcgttacc cgtctacga tcccttcat cgttggccacc taccitacca aggagtgga cttcggggagc gtggcgctgc cgttgcctct cggccctggac ttctgacca tgcacggag calcttacc ctagacctga tgcagagcga gctgtacgt cgggttgcct gggcgcgctgga caccgttgcag cggcccaagg gctaccgcaa gcttggcg cggcgacat ggttcttggc gctgtgtctg acgttgcctg tgaatgtgc caltgcgctg gttgcggcgg gttccaaag ccttggcctg cccgcttggg gcccggcg ccaaccggcc taccitgaagc tgccttgc caccagcalt gcgggggccc ggttcttcat cgggttgcct taccggcgcc tggcccgcc ctaccggccg tggcagcgcg cctcttcaa gcgggggccc cggccggggg cggcgcgctt ggccttgggt cggcgctacgt tgcctctct </p>
536	Galanin Receptor GalR3	NP_003605.1	Homo sapiens	<p>161214</p> <p> tccagagtcg ccgtctgatg gggagatggc lgalgccac aacalltca tggacagccc aggegagtg gggggcgtgg cagtgccgtg ggctttgcc ctaattcc tgcitggcac agtgggcaat gggcigtgtg tggcagtgct cctgagctt gggccgagtg cctggcagga gcttggcagc accacggacc tggatcct caacttggcg gtggcagac tctgttcat cctgtgtgc gtggcccttc agggcaccat ciacagctg gatgcctggc tcttggggc cctcgtctgc aagcgcgtgc acctgtcat ciactcacc atgtaccca gcagctttac gctggctgt gctcctgtg acaggtiact ggcgtgtgcgg caaccgtgc gctcgcgcgc cctgcgcagc cgcgtiaacg ccgcggccgc agtggggcg gttgtgtctg tggcggcgct ctctcgcg cctiaccia gctactacgg caactgtgc taccggcgcg tggagctctg cgttcccgcc tgggagagacg cgcgcggcgc cgccttggac gtggccact tgcctgcggc clactgtctg cccgtggctg tgggtgagct ggcctacggg cgcacgtctg gcttctgtg ggcggccgtg ggtccgcggc ggcggcgagg cggcgggagggc gacaggggccg cgcggggcgc gccatgtgg cgggtggccg gctctacggc ctctctgggg gtccgaccca cgcgcctalc ctgtgtctt ggtacggcgc ctgccttc agccggcca cctacgctg ccgcctggcc tccacgtgc tggcctacgc caactctgc ctcaaccgc tctctacgc gctcgcctg cgcctcttc cgcgcgcctg cctcgcgcctg tggcgtgtgc ggcgcggacg ccggccaccgt gcccgccgc ccttgcctgc cgtccggccc gctcctcgg gccacaccgg ctgcccggga gacggccggc ctacggggag gctctgtgt ggttggcggc agggccggga gccacgggag ggaaccgtcc acggcgggaga ggcctgcccga ggaccggat aaacctgcc gcttggac cgcctg MADAQNISLD SPGSVGAVAV PVVFAFLFL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA TIYTLDAWLF GALVCKAVHL LIYTMAYASS FTLAAVSVDY YLAVRHPLRS RALRTPNAR AAVGLVWLLA ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP HHALLCFWY GFAFSPATY ACRASHCLA YANSCLNPLV YALASRHFRA RFRRLWPCGR RRRHRARRAL RVRPSSGP PGCPGDARPS GRLLAGGGQG PEPREGPVHG GEAAARGPE atggcgctga ccccgagtc cccgagcagc ttccctggcg tggccggccac cggcagctct gtcggggagc cgcctggcgg ccccaagca accctcaaca gctcttggcg cagcccgacc gagccagct ccttggagga ccttggtgcc acggggacaca ttgggactct gctgtggcc atggcgctgg tggcgcttgg tgggcaacgc taccgttgg tgggtaccctg cgcctccctg cgttgcgggg cctcactga cgtctacgt gtcaacctg cgttggccga cctcgttacc cgtctacga tcccttcat cgttggccacc taccitacca aggagtgga cttcggggagc gtggcgctgc cgttgcctct cggccctggac ttctgacca tgcacggag calcttacc ctagacctga tgcagagcga gctgtacgt cgggttgcct gggcgcgctgga caccgttgcag cggcccaagg gctaccgcaa gcttggcg cggcgacat ggttcttggc gctgtgtctg acgttgcctg tgaatgtgc caltgcgctg gttgcggcgg gttccaaag ccttggcctg cccgcttggg gcccggcg ccaaccggcc taccitgaagc tgccttgc caccagcalt gcgggggccc ggttcttcat cgggttgcct taccggcgcc tggcccgcc ctaccggccg tggcagcgcg cctcttcaa gcgggggccc cggccggggg cggcgcgctt ggccttgggt cggcgctacgt tgcctctct </p>
537	Urotensin-II Receptor (GPR14)	NM_018949	Homo sapiens	<p>161221</p> <p> tccagagtcg ccgtctgatg gggagatggc lgalgccac aacalltca tggacagccc aggegagtg gggggcgtgg cagtgccgtg ggctttgcc ctaattcc tgcitggcac agtgggcaat gggcigtgtg tggcagtgct cctgagctt gggccgagtg cctggcagga gcttggcagc accacggacc tggatcct caacttggcg gtggcagac tctgttcat cctgtgtgc gtggcccttc agggcaccat ciacagctg gatgcctggc tcttggggc cctcgtctgc aagcgcgtgc acctgtcat ciactcacc atgtaccca gcagctttac gctggctgt gctcctgtg acaggtiact ggcgtgtgcgg caaccgtgc gctcgcgcgc cctgcgcagc cgcgtiaacg ccgcggccgc agtggggcg gttgtgtctg tggcggcgct ctctcgcg cctiaccia gctactacgg caactgtgc taccggcgcg tggagctctg cgttcccgcc tgggagagacg cgcgcggcgc cgccttggac gtggccact tgcctgcggc clactgtctg cccgtggctg tgggtgagct ggcctacggg cgcacgtctg gcttctgtg ggcggccgtg ggtccgcggc ggcggcgagg cggcgggagggc gacaggggccg cgcggggcgc gccatgtgg cgggtggccg gctctacggc ctctctgggg gtccgaccca cgcgcctalc ctgtgtctt ggtacggcgc ctgccttc agccggcca cctacgctg ccgcctggcc tccacgtgc tggcctacgc caactctgc ctcaaccgc tctctacgc gctcgcctg cgcctcttc cgcgcgcctg cctcgcgcctg tggcgtgtgc ggcgcggacg ccggccaccgt gcccgccgc ccttgcctgc cgtccggccc gctcctcgg gccacaccgg ctgcccggga gacggccggc ctacggggag gctctgtgt ggttggcggc agggccggga gccacgggag ggaaccgtcc acggcgggaga ggcctgcccga ggaccggat aaacctgcc gcttggac cgcctg MADAQNISLD SPGSVGAVAV PVVFAFLFL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA TIYTLDAWLF GALVCKAVHL LIYTMAYASS FTLAAVSVDY YLAVRHPLRS RALRTPNAR AAVGLVWLLA ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP HHALLCFWY GFAFSPATY ACRASHCLA YANSCLNPLV YALAS</p>

Accession	Gene	NP_061822.1	Protein	Sequence	Species
538	Urotensin-II Receptor (GPR14)	NP_061822.1	G Protein-Coupled Receptor GPR66	<p> MALTPESSSP FPLGAATGSS VPEPPGPNAL TNSSWASPT EPSSLEDLVA TGHTGTLSSA MGVVGVVGNAL YTLVVTCSRSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVTKEWHFGD VGRVLFGLD FLTMHASIFT LTMSSERYA AVLRLDVTQ PKGYRKLAL LGTWLLALLL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLFATSI AGPGLLIGLL YARLARA YRR SQRASFKRAR RPARALRLV LGIVLLFWAC FLFPWLWQLL AQYHQAPLAP RTARIVNYLT TCLTYGNSCA NFPLYTLLTR NYRDHLRGRV RGPGSGGGRG PVPSLQPRAR FQRCSGRSLSS PCSFQPTDSL VLAPAAPARP APEGPRAPA </p>	Homo sapiens
539	G Protein-Coupled Receptor GPR66	NM_006056	G Protein-Coupled Receptor GPR66	<p> atgctctgca atggcagtcg ggccaggggg cacttgacc ctgaggact gacgaggcac tgaagactcaa gtacctgggg ccacagcaga cagagctggt catgccacc tgggccacat acctgcgat ctctgggg ggccgctggg gcaatgggct gacctgtctg gtaactcgc gccacaaggc catggcagc ctaaccaact actactctt cagcttggcc gtgtcggacc tgcctgtgct gctgtggggc ctgcccttgg agctctatga gatgtgggac aactacctt tctcttggg cgttgtgggc tgcatttcc gcaactact gtttgagatg gtcttgcctgg cctcagtgt caaagtcaat gctctgagcg tggaaagctia tggggccgtg gtgacccac tcaaggccag gtccatgtg acggggggcc atgtggcccg agtcttggg gccgtctggg gtctgccat gctctgtcc ctgcccaaca ccagcttga ccgcatccgg cagcttgcag tgccttggc gggccacgt ccagactcag ctgttgcat gctgtccgc ccacggggcc tctacaacat ggtagtgcag accaaccgsc tgccttctt ctgccctgcc atggccaatca tgaagctgtct clactgtct atggggctgc gacttgcggcg ggagaggctg ctgtctatgc aggaaggccaa gggaaggggc tctgacgacg ccaggtccag atacacttgc aggtctccagc agcacatog gggccggaga caagtacaa agatgctgtt tgccttggc gtgtgtttg gcatctgtg ggccccgttc cactgcggacc gcgtcatgt gagctgtgtg tcaagtgga cagatggcct gcaacttggc ttccatggc tgcacgtcat ctccgggcatc ttcttacc tgggtctggc ggccaaccc gtgtctata gcttcalgt cagcgtcttc cgaagagacct tccaggaggc ccttgcctc gggggctgct gccatgctt cagacccgc cagacttcc acagctcag caggatgacc acaggcaga ccctgtga tggggctcc ctgggcagct gggtccacc cctggctggg aacgatggcc cagaggcgca gcaagagacc gatcatct ga </p>	Homo sapiens
540	G Protein-Coupled Receptor GPR66	NP_006047.1	G Protein-Coupled Receptor GPR66	<p> MACNGSAARG HFDPEDLNL DEALRLKYL PQQTLEFMPI CATYLLIFV GAVNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVGG CYFRTLLFEM VCLASVNLNT ALSVERYAV VHPLQARSMV TRAHVRRVLG AVWGLAMLCS LPNTSLHGIR QLVHPCRGPV PDSA VCMMLVR PRALYNMVVQ TTALLFFCLP MAIMSVLYLL IGLRLRRRL LLMQEA GRG SAAARSRYTC RLQQHDRGR QVTKMLFVLV VVFICWAPF HADRVMWSV SQWTDGLHLA FQHVHVISGI FFYLGAANP VLYSLMSSRF RETFQALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQOET DPS </p>	Homo sapiens
541	Purinergic Receptor P2Y10	NM_014499	Purinergic Receptor P2Y10	<p> atggcctacc ttgacaata cactgaaca ttcaagatgg gtagcaacag taaccgact gctgagattt actgaatgt cactaatgt aaatttcaat actccctcta tgcacaccc talatctca talatctcc taltcttcc tggctcttg gctaacagtg cagccttctg gggtctgtgc cgtctatca gcaagaaaaa taaggccatc attttatga tcaacctctc tgtggctgac ctgtctcatg taltatctt </p>	Homo sapiens

542	161251	Purinergic Receptor P2Y10	NP_055314.1	<p>accctccgg attactatt acatcagcca ccaatggcct ttccagagag ccttttgcg gctctgttc tacttgaagt atctcaat gtagccagc atttgttc tgaagtgcat cagtctcaa aggtgcttt ttctctcaa gcccttcagg gccagagact ggaagcgtag gtacgatgg ggcacatgg ctcgcatcg gatcgatgg gggactgct gttgcatc ttccatcctg agaagcacag acttaacaa caacaagtc tctttgctg atctggata caagcaaatg aatggatgg cttggatgg gatgataa gttctgagc ttgcaagat tggatccca gtagatcca tgcgatggg tacttggaaa actatlat cttggagaca gccaccaag gcttccaag ggatcagtag gaggcagaaa gacatcgga tgggttcat gttgctgca gttcttca tctgtcac tccatcatc attaatia tttttacc calggtaaa gaaacatca ttgacatgg tccgttgc cgaatgcac tgaattcca ccttttgc cttgcttgc caagtctg ctcgcttgg gatcaatc ttattact tatggctca gagtctgg accaatc ccggatggc agttctgga ccgctccg cctatgagc aaggaggg gttcatcat gattgctaa</p>	P	Homo sapiens
543	161293	G Protein- Coupled Receptor Lsl161293 [Herpes virus]	NP_042597.1	<p>MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YLIFIPGLL ANSAALWVLC RFISKKNKAI IFMNLVAD LAHVLSPLR IYYISHHWP FQRALCLLCF YLKYLNMVAS ICFLTCISLQ RCFFLLKPR ARDWKRRYDV GISAAIWIVV GTACLPFPL RSDLNKNS CFADLYGKQM NAVAALVGMIT VAELAGFVP VIIAWCTWK TTISLRQPPM AFQISERQK ALRMVFMCAA VFFICFTPYH INFIFTMVK ETIISCPV RIALYFHPFC LCLASLCLL DPILYYFMAS EFRDQLSRHG SSVTRSLMS KESGSSMIG</p>	P	Equine herpesviri s 2
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	<p>MATTSATSTV NTSSLATTMT TNFTSLTTSV VTTIASLVPS TNSEDDYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLGGLGN ILVVIIVRY MKIKNLNML LLNLAISDLL FLTLPFWMH YIGMYHDWTF GISLCKLLRG VCYMSLYSQV FCILLTVDR YLAVVAVTA LRFTVTCTGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYYPEMS TNVWRRAHVA KVMLSLILP LLIMAVCYV IIRRLRRPS KKKYKAIRLI FVMVAYVF WTPYNIIVLLL STFHATLLNL QCALSNDLM ALLITKTAV THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEKGP TRI</p>	A	Homo sapiens

gagctccaaag tctgctcccg cagggaactcc aagctccact ccaccacagc cagctctgag agctctcccc acatgctgggt
gggaagaaagc tctgattc tctgagggt caaggccact gcagggcacc cttctcgt cactgctgct gctctcact ctcgctgaagc
tgaagagacag ttcttaagca gctacgctta caataagaca gattggacat aaataaaca aaataactac taagataiga gctctccccc
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gatctctat ttacagaat ttgttctaa gtaggtaagt tgaagacat taatatact tctgagatg gaaggaaaga atccatttg
tctgttaac tggctgctag ccttaggca ggaaccacc accagctcac gtagccatga aggtggagacg gaacacctcc
cagctccaaag gacgttgtt ttccctgta cccagcaaa agttccagac atgacattta tcaaccat at gctgctcc tctcttca
tcaagaaag aggtgggca tgggggagag atcagaatgc gctctgtaaa aatctgtaaa aggaagaaagt gtaagaaat
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aagatgtagc atagtggg tccccgtca tccccgtca aggtggagtagc aatataccc tgcgttcca cacagagacc tgaagctct
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ctaaatggt tatataaact atgttaagt ttgaaact gctaaact atactctia acatttatt cattgctatg
ccttcttag tgcagaaac aataactt tcaaaagatca gctaaagac aatatacaa tgaagatga tggctatg ttacocitg
atatactc caatctgct ttgagcaaa agtcaagaaat attagtgt tagctaaac agcttaaca caagatgttg agttgaatt
ctttatga caccaataa cacaacaag tagatggcac aataatggc cagacata caaccagca atgaatga
caatacaag aagtaaat aaataact taaacagta taagtggct ttccagggtt cctagaata acctataaa atctgtgaaa
calgtgca ctttttga taacaaalg tactaaat tagtaacta ttgtttat gtttaacat gtaggggagc ttggtctca
aatctat agtcagccac taacaagta tactgaat acatactt gacttaca tgcattacg aaatcagc tatggggtt
ctaaagaaa aatagtagct taactgtt ttgtctgt ttgttgaat ttcttga gtagattgt tttgcttg ctaccagc
atcactct ctatgtgagc agaaatagc aggtccaggt cacatctt aaatagtaa gaaaaciga catcattac tcaatgca
tgaacttaa actaagatt atataata atttcaagt tcaagaaag taagcaataa cagtaaaag aatgaagaaag gctaaaggt
agccctgt tctgaattc gaagctaaa agtatgaat tagccatg cagagccgt ttatggggt ctcgtgagt aaatcagc
cagtgtt acatttgcca aggttagaa gctttgctt ccaatggc tcaaccca tactaacg caggtccatc ttctatta
tttgagca aacactac aggaacagca gcaataggt acaactt aggtttat aaattagat cagcagacaa aaatcttaa
ctatgtgag aaaaatagg gaaaaaaag cctgtcttg tttaaat tctctt gaaagaaat gctagtaaaa caaacaaca
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tggagctcag tctagctt ttatgtt tcaatgtt gttgctt gttgctt gttgctt gttgctt gttgctt gttgctt
tactttca ggaagaaat ctgaataat ctgcaaaa gaaatctg cacttcaa gttccgctg ccttagaagag
cacacaaagc accaaagagc ttatgacta acctaaaca caaataaa algtaaaa caacactat tactcagaa
tttgatgt attgttaa tgaagaa cccagaaac ctgtaaac gttgctt ttatgctt tactataaa gacagagga
ttaaaact tcaactaa gtaaatct gttgctt ttcttgaat gttgctt gttgctt gttgctt gttgctt gttgctt
atgaagaaa aaatgtaac atctcagc gttgctt gttgctt gttgctt gttgctt gttgctt gttgctt
ttatgtt gatttaat acattagca aatctgca gaaagaaat caataata aaatttga gcaagctata aagttttt
caagttgtt aaattatct gattatgct aaaaatccat cttctgata ttttggcagtt tttaaloca algttttat

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	<p>ttaataat taaaaatcat atgaaaaat</p> <p>MASPAAGNL SA WPGWGWPPPA ALRNLTTSPA PTASPPAPS WTPSPRPGPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIWIVLAHMR MRTVTNSFLV NLAFADAAMA ALNALVNFTY ALHGEWYFGA NYCRFQNFPP ITAVFASIYS MTAJAVDRYM AIDPLKPRLL SATATRVIG SIWILAFLLA FPQCLYSKIK VMPGRTL CYV QWPEGSRQHF TYHMIIVLV YCFPLLMGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVVKNMIIIV VTFaicwLpy HIYFILTAIY QQLNRWKYIQ QVYLASFwLA MSSTMYNP II YCCLNKRFRa GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDS NDGDSARSSH QKRGTTTRDVG SNVCSRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	NM_006639	<p>atggatgaag caggaaatct gacagtatct tctgccat gccalgacac tatgatgac ttcgcaatc aagtgatc cacttgatc tctatgatct ctgtgtagg cttcttgcc aatggcttg tgcctatgt cctcaaaaa accatcacaca agaagtcagc ctccaagta tacaatgata attagcagc agcagatcct ctttgtgt gacacagcgc tctccgtgt gtcctatgt ttcacaaagg catttggtc tttgtgact tcttgccgc cctcagcacc tatgttgt atgcaact ctattgtac atctcttta tgacagccat gacttttc cgttgcatg caatgttt tccagccag aacattaat tgggtacaca gaaaaagcc aggtttgtgt gtgtaggat tggatttt gtgatttga ccaatctcc atttcaatg gccaaaccac aaaaagatga gaaaaataat accaagtgct ttgagccccc acaagacaat caaaciaaaa atcaltgtt tggcttgcat tatgtgtc ctatcgc cttttgt ttaataatgt ctgtacaca atgactatt tgcacttact aaaaaatca atgaaaaaaa atctgtcaag tcaataaag gctataggaa tgcattggt cgtgacccgt gctttttat gcatatcat atcaacgt ccaatcact tcaatttta caaatgaaa ctacaacctg tgatctgt cttagaagc agaagtcctt ggtcatalacc ttgtctcgt ctgcatacaa ttgtgttt gacotctcc tatattct ttctgggggt aactttagga aaagctgtc tacaatcaga aagcattct tctccagcgt gactatgta cccagaaaaa aggcctctt gccagaaaaa ggagagaaaa tatgtaagt atag</p>	A	Homo sapiens
547	177168	Cysteinyl Leukotriene CYSLT1 Receptor	NP_006630.1	<p>MDETGNLTVS SATCHDITDD FRNQVYSTLY SMISVVGFFG NGFVLYVLK TYHKKSATQV YMINLA VADL LCVCITLPLR VYYVHKGIWL FGDFLCRLST YALYVNL YCS IFFMTAMSF RCIAIVFPVQ NINLVTKKA RFVVCVGIWF VILTSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVLVLH YVSLFVGFII PFVIIVCYT MILTLKKS MKKNLSSHKK AIGMIMVVT AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCFF DPLLYFFSGG NFRKRLSTFR KHSLSSTVTV PRKKASLPEK GEEICKV</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232	<p>ccacgcgtcc gccggctgca cggctgcacc ggacgcggct caggctccgg ctctctccc gctgcagcag ccgcgcgccc ggcccccact ggctcggatc cggcccccgc cccctcggca ccgcctgtct tggccccggc cccggccccg cggaccatgc gctggggccc cccaggggaa acccgaccgc gccaaaggcc cgcgaagacc aggtctccgg gccggggccc ctcccggccc ccacgtctc ggccggccc ctgcctccgc tccggagcc gcgtgagct gcgggcccag ggagcgcgcg ccgcccagc ggccgcagaa cgtctggggg gcgtggccgc gcgatggccc ggccggccggc ggggcgcgcg gctctggcc agccaggacc gcgggtctgg ccgcctcat ggccgtctc atcggtgcca cgggtgctgg caacgcgcgt gcatgctgc ccttcgggc cgactcgagc ctccgcacc agaacaact ctctctgc aactcgcca tctcgact ctctgcggc gctctcgca tccactgta tgaacctac gctctgacag gccgcctggac ctggcccg ccctctcgca agctgtggct ggtagggag taactgctt gacactctc tgccttaac atcgctca tcaatgaca ccgtctctc tgggtcaacc ggccgtctc ataccggccc cagcaggggt acacggccgc ggcatggccg aagatgtctc tgggtgggt gctggcttc ctgtgacg gaccagccat cctggagctgg gagtacctt cccggggggcag ctccatccc gagggccact gctatggcga gttctctac</p>	A	Homo sapiens

549	177191	Histamine H3 Receptor	NP_009163.1	<p> aactggtaact tctatcaac ggcctccacc ctggagttct ttacgocctt cctcagctc accctttta accatagcat ctaccigaaac atccagagggc gcaaccggctt ccggcttggat gggggctcggag agggcagccggc ccccgagggc cctccggagg ggcagggcctc accacoccca ccggcttggct gctgggggctg ctggcagagag ggggcacggggg agggccatggcc gctggcagagg taagggggagg gtggagggggc cgttagggcct gaggccggggg agggccacct cggggggggggc gggggggggggc gctccggggc ttacocccac tccagctccg gcaagctctc gagggggacct gaggggggc gctactcaa gaggggggctcc aagccggctggc cgtctcgggc ctcggggag aaggccagatga agalggggc ccaagcttc acccagggc acccagggc tggggctggc tgggggacagg aagggggcca agtcctgggc cgtcagctg agcatctgg gggctcggc gggccccatc agctggctga tgaatccg gggccggctgg catgggacct ggcctccatga ctacggggat gaaacctct tctggctctt gggggggcaac tgggctggta accctggctt ctacccttg tggccacaca gcttccggcg gggcttcaacc aagctggctt gggcccaaga gctcaaatc cagggccaca gctcccgga gcactgctgg agggggggc cccaccagag cctccctcag ccacggctct ctacggccag gctctcggg catctggccc tctggccccc taccggctc gttcccccag gggggggggc cggcggtgt gggggggcct cttaalgcca cggcagggcac cctggccatgg agggggctc ctggggggc cagagggggc ctacagggct gggactggagg ctggggggc ggggggggc cccacattt gggctccacc ggggggggaca gctgggggg cccagagatg ctggccaccc cctggctggg ccacccctc gcagttact gttgggttc ttcccaagg aagcaccgg ggtggctcca ggggttcc ctagcaggt tggctggc cgtggcaca cctggcacc cctggcaca cctggcacc gttccctcc cgggacagg caggggacct gcttggct ccttctgt ctggcataag cctcagggct gggcttca ccccttcc caccactt cctggccccc aaaaaggta agggggcccta ggaaacctga agctgtctc tcttttcca ttgggggt ttacagaaag atgaaagaa aacatgtct gttgaactga tgttgggg atgttaac aagagagaca aaatgtcga gggagctcagg gctgggtagg cagggtggg cccacggc cctccctc cgttaaggct tccggctggc ctggccagg tcttggcc caccggct cctggggctc accagggctg gttggccaagc ctggccggc cacttgtt gctacccag gacctggg gttggggg agggggggggc cggggctggggc ccggggggctc caaggctggc agggggggc cagaggggtt gggggggcagg gggggggc gggggggc gggggggc gggggggc ctggggct cctggctgt gggggggc ctggccctga aaccggggg tcaataaa gttgatttt ttaaaaaa aaaaaaa aaaaaaa </p>	P	Homo sapiens
550	177387	G Protein- Coupled Receptor ORF4	NM_020155	<p> LYPLCHSFR RAFTKLLCPQ KLKIQPHSSL EHCWK agggggcgt gcccgaacc gaggggatc agccggctt cccctccac ccaaggaga calgaacgc cgaaggcagg gagctctc ctggggctc tgaatcccc catctggc tctggggtag gcccaggggag gaggacccc caaccctat ccggctctg ctggagaaa gaggactggc ttccatggc ctggagtag gggctggggg caggctggct gtttccca agggcaagg tctctgtt gaggagggg gctggtag cacaactt ttctctga gggcccatc tccctctg caccctgaa ttccacccc tccgattta ttccctgg cccggcgaca gttccctt gttgtgtcc ggggttag cctccctcc tgacatggag agtaacctgt ctgggggg gctggggg ctgggggg accctggct accctgggg tgacagctc ctacacacc ctgtagggc tctctt ctccctat gggggggc gggggggc tctgtatggg cacaaggc tcaatca gagggggtc ctggggcctt gttgtgtc gggggcctt cgtaccaccc tcttctct ctactccga gatactccc </p>	A	Homo sapiens

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	P	Homo sapiens	<p>gggcaaacgg cctggggccc ttgccctctt ggcttctcta ctgctgcccc gctcggcctg agttctcac ctggacgttt atgaacctt acattggccca ggtgggtgtc aaggccaagg lgaagcgtcg gccggagatg agccagagct tgcctgctgt ccgagggggc ttgtgggggg cctcgtctgt ctctgtctg gtagaacgtg tgtgtgtgt gctctccat cggcgcgac agccccggg cctgctgt gtcgcgtcc tggtagcga ctccctgtc gtcactgctg cgtctgtct tgcctgctg cctgctctg tggccagcgg ggcctccca ctagcatca cctggaggcc aaggtagggc tgcagcacg algcccagg gctttggg tctctggca gcatctca ggggtagag</p> <p>MESNLGLVP AAGLVLPALPP AVTLGLTAAY TTYALLFFS VYAQLWLVL VLL YGHRLSYQT VFLALCLLWA ALRTTLFSFY FRDTPRANRL GPLPFWLLYC CPVCLQFFTL TLMNLYFAQV VFKAKVKRRP EMSRGLLA VR GAFVGASLLF LLVNVLC AVL SHRRAQP WAL LLVRVLVSDS LFVICALSLA ACLCLVASGR PPLASTWRPR</p>
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	A	Homo sapiens	<p>cttcttaaa ttcttctta ggaatgtcac ttctctcca caatgaatga ggtgtactat gacaagcaca tggactttt taaataagg agcaacactg atactgtcga tgcattggaca ggaacaagg ttgtgattgt ttgtgtgt gggacgttt tctccgtgt tattttt tctaattct tggatcgc ggcagatgc aaaaacagaa aatttcatt cctcttacc tactgttgg caatttiagg tctcgtgat ttctcgtg gaattgccia tgaattccgt atgttaaca caggccacgt ttcaaaaact ttgactgca accgtgtgt ttctcgtcag gggctctgg acagtacgtt gactgtccc ctaccaact tgcctgttat cgcctgtggag aggcacatgt caatcagag gatcgggc catagcaacc tgaacaaaa gagggtgaca ctgtcatt ttctgtctg gggcctgccc attttatgg gggcggtccc cacactggcg tggatggc tctgcaacat ctctgcctg tctctcctg cccccattt cagcagggagt tacctgttt tctggacagt gtccaacc ctggccttc tcatcattgt tgggtgtac ctgcggatct acgtgtact caagaggaaaa accaagct tctctcga tacaagtggg tcatcagcc gccggaggac accatgaag ctaatgaaga cgggtgatgac tgcitagg gctgttgg tatgtcggac cccggggctg tgggtctgc tctcctcag cctgaactgc aggcaggtg gctgtcagca tgtgaaaagg tgggtctgc tgcctgcgt gctcaactcc tgcgtgaacc ccatcatca ctctacaa gacgaagaca tgaatggcac catgaagag atgattgt gcttctca ggaagaacca gtagaggcgt cctctgcac cctctccca gtcctcaga ggaatgacac aggcagccag tacaatagg aatgtatag ccaagggtgca gctgtcaata aaagcactc ctactcgt gatgcctc ggccaccaca ggtgatgact gcttagg</p> <p>MNECHYDKHM DFFYNRSNID TVDDWTGTL VVLCVGTFF CLIFFFSNSL VTA AVIKNRK FHPFYLLA NLAADFFAG IAYVLFMNT GPVSKTLTVN RWFLRQGLLD SSLTASLTNL LVIAVERHMS IMRM RVHSNL TKKRVTLLIL LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRSLVF WTVSNLMAFL IMVVVYLRJ VYVKKRTNVL SPHTSGSISR RRTPMKLMKT VMTVLGAFV CWTPLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM YGTMKKMICC FSQENPERP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS</p>
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	P	Homo sapiens	<p>atgggcccc gcaaggcgt gctggcggtt ctctgttga tggatggc cgtggcgctg ctatccaag cactgtgt gctttgc gctacagcg ctgagctcg cactcagcc tcaaggcgt tctgtgtgaa tctgtctg gggcactgc tctggcgcg ccttcacatg ccttcacg tgcctgggt gtagcgggg cgggacacct cggcgccgg cgcagccaa gtcattggt tctggacac ctctctggcg tccaacgcgg cgtgtgagct ggcggcgctg agcgagacc agtggcgtgg agtgggctt ccaactgcgt acgcgggacg cctggagccg cgtatagccg gcttctgct gggcctgtgccc tggggacagt cgttggcct ctacggcgt gcatgtggct gctcgtggct tggctacag agcgccctcg cgtcctgtc gctgtgcctg ccggccggcg ctgagcgtcc gctctcga gctttaccg ccacttccca tgcctggggc ttctgtctg cgttggcggt gctctgcctc acctgcctc aggtgcacgg ggtggcgacgc agacatggc agcgcatgga caccgtcac algaaaggcg</p>
554	189873	G Protein-Coupled Receptor GPR78	AF411107	A	Homo sapiens	

555	189873	G Protein- Coupled Receptor GPR78	CAC34041.1	<p> tgcgcgtgct cgcgcgacctg caocccagtg tggggcacgg cgtctcalt cagcagaagc ggcgcgcgcca cgcgcgcacc aggaagatig gcattgctat tgcgacctc ctactgct tggcccgta tgcaltgacc aggcctggcgg agctcgtgccc ctctgcacc gtagaacgcc agtggggcat cctcagcaag tgcctgacct acagaagggc ggtggccggac ccgttcacgt actictgct ccgcgcggcg ttccgccaag tctggccgg catgtgac cggctgctga agagaacccc ggcgccagca tccaccatg acagctictt ggalggccc ggcaltggcg accagtgct gaaagagaac ccgcgcgcag cgtccacca caacggctct gtagaacag agaaltgct cgcctgcag cagacacct ga MGPGEALLAG LLVMVLAVAL LSNALVLLCC AYSALRTRA SGVLLVNLSL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGYG SAFASCSRLR PPEPRPRFA AFTATLHVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTVT MKALALLADL HPSVRQRCLL QQKRRRHRAT RKIGIALATF LICFAPYVMT RLAEVPFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQVLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH </p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167	<p> atggaaaaac ttcaagatgc ttctggatc taccagcaga aactagaaga tcaattccag aaacacctga acagaccga ggagiatctg gctctcctt ggcggacctg gcgcagccac ttctctcc ccgtgctgt ggtgtatgig ccaatttgg tgggggggt cattggcaat gctcgtggtt gctcgtggtat tctgcagcac cagggtatga agacgcccac caactactac cttctcagcc tggcggcttc tgcctctctg gctcgtctcc ttggaatgoc cctggaggtc taagagatgt ggcgcacctc cctctcttg ttggggccc tgggctgctca cttaagagag gctctcttg agaccgtgig ctgcctcc atctcagca tcaacacct cagcgtggag cgtctcgtgg ccatctaca ccgtctccg gccaaactgc agagaccgcc ggcgcggggc ctcaggatcc tggcctcgt cgggggcttc tccgtgctt tctcctgccc caacacagc atcaatggca tcaatggca ctacttccc aatgggtccc tgggtccagg ttggggcacc tgaagggtca tcaagcccat gtagatctac aatttca tccaggtcac ctctctca ttctactcc tcccatgac tgcctcagt gctctctat acctatgac actatgac actcagacta agaaagaga aatcttga ggcagatga ggaatgcaa atattcaag acctgcaga aatcagctca acaagatgt gttgtctg gctatgctg ttgtatcig tggggccccg ttccacattg accgactct ctacgcttt ggggagaggt ggaatgaac cctggctgct ggttcaacc tctccatgt ggtgtcaggt gctctctt acctgagctc agctgcaac ccatlacti alaactact gctcgcgc ttccagggcag cattccagaa tgtgatctct tcttccaca aacagtggtca ctccagcat gaaccagat tgcacctgc cgaagggaac atctctcga cagaatgcca cttgtggag ctgaccgaag atatggctc ccaattccc tgcagtcat ccatgcaaa ctctacctc ccaacagccc tctctatga acagatgca agaaacact atcaagctt ccatitac aaaactga MEKLQNASWI YQKLEDPPQ KHLNSTEYL AFLCGPRRSH FFLPVSVVVY PIFVVGIGN VLVLVILQH QAMKTPITNY LFLSLAVSDLL VLLGLMPLEV YEMWRNYPFL FGPVGCYFET ALFETVCFAS ILSITTVSVE RYVAILHPFR AKLQSTRRA LRILGIVWGF SVLFSLPNTS IHGKFHYFP NGSLVPGSAT CTVKPMWY NFIIQVTSFL FYLLPMTVIS VLYLMLRL KDKSLEADE GNANIQRPCR KSVNKMFLVL VLVFAICWAP FHIDRLFFSF VEEWSESLAA VFNLVHVVSF VFFYLSSAVN PIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNSHL PTALSSEQMS RTNYQSFHN KT atctggcag ctccttgg agactiaac tccagcaga tgaatgctc cttgtcac ctccattg ccggaggga cctgcccct gattccagg actggagaac catcaaccg gctcttgg tggctgctg cctgggggc ttctgggaa acctgtgtgt </p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1	<p> tctctatga acagatgca agaaacact atcaagctt ccatitac aaaactga MEKLQNASWI YQKLEDPPQ KHLNSTEYL AFLCGPRRSH FFLPVSVVVY PIFVVGIGN VLVLVILQH QAMKTPITNY LFLSLAVSDLL VLLGLMPLEV YEMWRNYPFL FGPVGCYFET ALFETVCFAS ILSITTVSVE RYVAILHPFR AKLQSTRRA LRILGIVWGF SVLFSLPNTS IHGKFHYFP NGSLVPGSAT CTVKPMWY NFIIQVTSFL FYLLPMTVIS VLYLMLRL KDKSLEADE GNANIQRPCR KSVNKMFLVL VLVFAICWAP FHIDRLFFSF VEEWSESLAA VFNLVHVVSF VFFYLSSAVN PIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNSHL PTALSSEQMS RTNYQSFHN KT atctggcag ctccttgg agactiaac tccagcaga tgaatgctc cttgtcac ctccattg ccggaggga cctgcccct gattccagg actggagaac catcaaccg gctcttgg tggctgctg cctgggggc ttctgggaa acctgtgtgt </p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108	<p> atctggcag ctccttgg agactiaac tccagcaga tgaatgctc cttgtcac ctccattg ccggaggga cctgcccct gattccagg actggagaac catcaaccg gctcttgg tggctgctg cctgggggc ttctgggaa acctgtgtgt </p>	A	Homo sapiens

Ls189884

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catgagaggg acacagctcc tctgtacag gacatgacc ctatccctg ggaacatgaa gatacaga caggggaaagg
tgtaaatag

Homo sapiens

P

559 189884 G Protein-Coupled Receptor Ls189884 ENSMPRT1140 67

Homo sapiens

A

560 189895 G Protein-Coupled Receptor GPR61 NM_031936

atgagatct caccatccc ccagatcata gggaaacttt ccaatttggg gagggtccct caaacccag gtcctctac
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gactggctgt cctctgagt cctgggttc ccagcccca cccagggacc acctgtgt gacttggaa
tccaggccag atag

Homo sapiens

P

561 189895 G Protein-Coupled Receptor NP_114142.1

MESSPIPQSS GNSSTLGRVP QTPGPSTASG VPEVGLRDVA SESVALFFML

562	189900	Sphingolipid Receptor Edg8.	NM_030760	A	Homo sapiens	<p> LLDLTAVAGN AA VMAVIAKT PALRKFFVVF HLC LVDLLAA LTLMLAMLS SPALFDHALF GEVACRL YLF LSVCFVSLAI LSVSAINVER YYVYVHPMRY EVRMTLGLVA SVLVGVVWKA LAMASVPVLG RVSWEEGAPS VPPHCSLQWS HSAYCQLFVV VFALVYFLLP LLLLLVYCS MFRVARVAAM PDGPLPTWME TPRQRSELS SRSTMTSSG APQTTPHRTF GGGKAAVLL AVGGQFLLCW LPYFSEHLYV ALSAQPISTG QVESVVTWIG YFCFTSNPFF YGCLNRQIRG ELSKQFVCFK KPAPEEELRL PSREGSIEEN FLQLQGTGTC PSESWVSRPL PSPKQEPNAV DFRIQAR </p>
						<p> atggagtcgg ggc'tgtcgc gccgggcgcg gtagcgagg tcatgtctt gcattaacac tacacggcca agctccgcgg tgcgcgtac cagccgggtg ccggcctgcg ccgcgagcc gtaggtgctt tgggtgtg gccttgcac gtagtagaga atctagcgt gttgtgtg ctaggagcc accgcgctt ccacgtccc atgttctgc tcttgggcag cctcagttg tggatctgc tggcaggcg ccctacgc gccacatcc tactgtcgg gccgtctacg ctgaaactgt ccccgcgct ctggttcgca cggagaggag gcgtctctt ggcactact gcgtccgtgc tggcctctt ggccatcgcg ctggagcgca gccacatc ggcgcgagg ggcccccgc ccgtctccag tgggggggcg acgttggcga tggcagccgc ggccggggc gtgtcgtgc tctcgggct cctgcagcg ctagggctgga atgtcctggg tgcctggag gccgttctcca cgtctggcc gcttacgc aaggccacg tgcctctg cgtctcgc ttcgtgggca tcttgggcgc gctcgtgca cctacgcgc gcctactg ccaggtagc gccacgcgc ggcgctgc gccacggccc ggacgtgcgg ggaccactc gcccgggcg cgctgcaagc ccgctcgtt ggccgtgc ccacgtcga gcgtgtgtt cctggctt gtagctgtt ggggccctt ctctcgtg cgtgtcgt acgtggcg ccggcggc accgtctg tactctgca ggccatccc ttctgggac tggccatgc caactact ctgaaccca tcatctac gctacacac ccgcgacgc gccacgcct cctgcgcctg gctcgtgc gacgcact ctgcggcaga gaccgagtg gctccagca gtcggcgagc gcgctgagg cttccggggc cctgcgcgc tgcctgccc cgggcttga tgggagctc agcggtcgc agcgtcact gccacgcgc gacgggctgg acacagcg ctcacagc agcccggt caccacag ccgcggact cgtgtatcag aaccggctgc agactga MESGLLRPAP VSEVIVLHYN YTGKLRGARY QPGAGLRADA VVCLAVCAFI VLENLAVLV LGRHPRFAP MFLLLGSLTL SLLAGAAAYA ANILLSGPLT LKLSPALWFA REGGVFALT ASVLSLLAJA LERSLTMARR GPAPVSSRGR TLAMAAAAG VSLLLGLLP LGWNLGLD ACSTVLPYA KAYVLCVLA FVGILAAICA LYARIYQVR ANARRLPARP GTAGTTSTRA RRPRLALL RTL SVLLAF VACWGPLELL LLDVACPAR TCPVLLQADP FLGLAMANS LNPIYTLN RDLRHALLRL VCCGRHSCGR DPSGSQSQS AAEASGGLRR CLPPGLDGSF SRSERSSPQR DGLDTSGSTG SPGAPTAART LVSEPAAD gttgagcac cgtgtgtcgc cctgtctt ctaggcaga gcggcgagc cctaacccc acagcgtgc agccctgcag ctggccctca gccctgggag gagcctct ttccagaga gacctgccc tgcacttca gcttccctc ggctccgc ttctagagg cctcccgta gcgcactgc ctggagggtt ggtagaggt ctcgtcgtc actgggctt gccggccccg cgtgaggccc agcaaggccc ggtcgtgtg gagggaagtg gggttagaga agcagtagag cagggggctc aggcactgt tgagtaggt gaaggccagg gagccatgga agagctgtt gcaagagctc aggcagcgc aggcggagc ccaanaagcc accatggag ccatgcaaaa gtagtagctg ggcaagagc agtaggtgta gacggccac accatggcca gcacagcat ggccctctgc ggccctgcct accacgttc cggatgtgta gccatgct cacaataga aagagggatga gcgccagtg caggaaagac tccagcaggt acagtgctc gtagcagcgc agcagggcg agggcttctt gccaccccg tagctgaggc agggggggcc ggagagggtg ctacggagca ggtgcccgtt gaggagagc atgcccacc agagtcccc </p>
563	189900	Sphingolipid Receptor Edg8	NP_110387.1	P	Homo sapiens	<p> atggagtcgg ggc'tgtcgc gccgggcgcg gtagcgagg tcatgtctt gcattaacac tacacggcca agctccgcgg tgcgcgtac cagccgggtg ccggcctgcg ccgcgagcc gtaggtgctt tgggtgtg gccttgcac gtagtagaga atctagcgt gttgtgtg ctaggagcc accgcgctt ccacgtccc atgttctgc tcttgggcag cctcagttg tggatctgc tggcaggcg ccctacgc gccacatcc tactgtcgg gccgtctacg ctgaaactgt ccccgcgct ctggttcgca cggagaggag gcgtctctt ggcactact gcgtccgtgc tggcctctt ggccatcgcg ctggagcgca gccacatc ggcgcgagg ggcccccgc ccgtctccag tgggggggcg acgttggcga tggcagccgc ggccggggc gtgtcgtgc tctcgggct cctgcagcg ctagggctgga atgtcctggg tgcctggag gccgttctcca cgtctggcc gcttacgc aaggccacg tgcctctg cgtctcgc ttcgtgggca tcttgggcgc gctcgtgca cctacgcgc gcctactg ccaggtagc gccacgcgc ggcgctgc gccacggccc ggacgtgcgg ggaccactc gcccgggcg cgctgcaagc ccgctcgtt ggccgtgc ccacgtcga gcgtgtgtt cctggctt gtagctgtt ggggccctt ctctcgtg cgtgtcgt acgtggcg ccggcggc accgtctg tactctgca ggccatccc ttctgggac tggccatgc caactact ctgaaccca tcatctac gctacacac ccgcgacgc gccacgcct cctgcgcctg gctcgtgc gacgcact ctgcggcaga gaccgagtg gctccagca gtcggcgagc gcgctgagg cttccggggc cctgcgcgc tgcctgccc cgggcttga tgggagctc agcggtcgc agcgtcact gccacgcgc gacgggctgg acacagcg ctcacagc agcccggt caccacag ccgcggact cgtgtatcag aaccggctgc agactga MESGLLRPAP VSEVIVLHYN YTGKLRGARY QPGAGLRADA VVCLAVCAFI VLENLAVLV LGRHPRFAP MFLLLGSLTL SLLAGAAAYA ANILLSGPLT LKLSPALWFA REGGVFALT ASVLSLLAJA LERSLTMARR GPAPVSSRGR TLAMAAAAG VSLLLGLLP LGWNLGLD ACSTVLPYA KAYVLCVLA FVGILAAICA LYARIYQVR ANARRLPARP GTAGTTSTRA RRPRLALL RTL SVLLAF VACWGPLELL LLDVACPAR TCPVLLQADP FLGLAMANS LNPIYTLN RDLRHALLRL VCCGRHSCGR DPSGSQSQS AAEASGGLRR CLPPGLDGSF SRSERSSPQR DGLDTSGSTG SPGAPTAART LVSEPAAD gttgagcac cgtgtgtcgc cctgtctt ctaggcaga gcggcgagc cctaacccc acagcgtgc agccctgcag ctggccctca gccctgggag gagcctct ttccagaga gacctgccc tgcacttca gcttccctc ggctccgc ttctagagg cctcccgta gcgcactgc ctggagggtt ggtagaggt ctcgtcgtc actgggctt gccggccccg cgtgaggccc agcaaggccc ggtcgtgtg gagggaagtg gggttagaga agcagtagag cagggggctc aggcactgt tgagtaggt gaaggccagg gagccatgga agagctgtt gcaagagctc aggcagcgc aggcggagc ccaanaagcc accatggag ccatgcaaaa gtagtagctg ggcaagagc agtaggtgta gacggccac accatggcca gcacagcat ggccctctgc ggccctgcct accacgttc cggatgtgta gccatgct cacaataga aagagggatga gcgccagtg caggaaagac tccagcaggt acagtgctc gtagcagcgc agcagggcg agggcttctt gccaccccg tagctgaggc agggggggcc ggagagggtg ctacggagca ggtgcccgtt gaggagagc atgcccacc agagtcccc </p>
						<p> atggagtcgg ggc'tgtcgc gccgggcgcg gtagcgagg tcatgtctt gcattaacac tacacggcca agctccgcgg tgcgcgtac cagccgggtg ccggcctgcg ccgcgagcc gtaggtgctt tgggtgtg gccttgcac gtagtagaga atctagcgt gttgtgtg ctaggagcc accgcgctt ccacgtccc atgttctgc tcttgggcag cctcagttg tggatctgc tggcaggcg ccctacgc gccacatcc tactgtcgg gccgtctacg ctgaaactgt ccccgcgct ctggttcgca cggagaggag gcgtctctt ggcactact gcgtccgtgc tggcctctt ggccatcgcg ctggagcgca gccacatc ggcgcgagg ggcccccgc ccgtctccag tgggggggcg acgttggcga tggcagccgc ggccggggc gtgtcgtgc tctcgggct cctgcagcg ctagggctgga atgtcctggg tgcctggag gccgttctcca cgtctggcc gcttacgc aaggccacg tgcctctg cgtctcgc ttcgtgggca tcttgggcgc gctcgtgca cctacgcgc gcctactg ccaggtagc gccacgcgc ggcgctgc gccacggccc ggacgtgcgg ggaccactc gcccgggcg cgctgcaagc ccgctcgtt ggccgtgc ccacgtcga gcgtgtgtt cctggctt gtagctgtt ggggccctt ctctcgtg cgtgtcgt acgtggcg ccggcggc accgtctg tactctgca ggccatccc ttctgggac tggccatgc caactact ctgaaccca tcatctac gctacacac ccgcgacgc gccacgcct cctgcgcctg gctcgtgc gacgcact ctgcggcaga gaccgagtg gctccagca gtcggcgagc gcgctgagg cttccggggc cctgcgcgc tgcctgccc cgggcttga tgggagctc agcggtcgc agcgtcact gccacgcgc gacgggctgg acacagcg ctcacagc agcccggt caccacag ccgcggact cgtgtatcag aaccggctgc agactga MESGLLRPAP VSEVIVLHYN YTGKLRGARY QPGAGLRADA VVCLAVCAFI VLENLAVLV LGRHPRFAP MFLLLGSLTL SLLAGAAAYA ANILLSGPLT LKLSPALWFA REGGVFALT ASVLSLLAJA LERSLTMARR GPAPVSSRGR TLAMAAAAG VSLLLGLLP LGWNLGLD ACSTVLPYA KAYVLCVLA FVGILAAICA LYARIYQVR ANARRLPARP GTAGTTSTRA RRPRLALL RTL SVLLAF VACWGPLELL LLDVACPAR TCPVLLQADP FLGLAMANS LNPIYTLN RDLRHALLRL VCCGRHSCGR DPSGSQSQS AAEASGGLRR CLPPGLDGSF SRSERSSPQR DGLDTSGSTG SPGAPTAART LVSEPAAD gttgagcac cgtgtgtcgc cctgtctt ctaggcaga gcggcgagc cctaacccc acagcgtgc agccctgcag ctggccctca gccctgggag gagcctct ttccagaga gacctgccc tgcacttca gcttccctc ggctccgc ttctagagg cctcccgta gcgcactgc ctggagggtt ggtagaggt ctcgtcgtc actgggctt gccggccccg cgtgaggccc agcaaggccc ggtcgtgtg gagggaagtg gggttagaga agcagtagag cagggggctc aggcactgt tgagtaggt gaaggccagg gagccatgga agagctgtt gcaagagctc aggcagcgc aggcggagc ccaanaagcc accatggag ccatgcaaaa gtagtagctg ggcaagagc agtaggtgta gacggccac accatggcca gcacagcat ggccctctgc ggccctgcct accacgttc cggatgtgta gccatgct cacaataga aagagggatga gcgccagtg caggaaagac tccagcaggt acagtgctc gtagcagcgc agcagggcg agggcttctt gccaccccg tagctgaggc agggggggcc ggagagggtg ctacggagca ggtgcccgtt gaggagagc atgcccacc agagtcccc </p>
564	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	LG94029	A	Homo sapiens	<p> atggagtcgg ggc'tgtcgc gccgggcgcg gtagcgagg tcatgtctt gcattaacac tacacggcca agctccgcgg tgcgcgtac cagccgggtg ccggcctgcg ccgcgagcc gtaggtgctt tgggtgtg gccttgcac gtagtagaga atctagcgt gttgtgtg ctaggagcc accgcgctt ccacgtccc atgttctgc tcttgggcag cctcagttg tggatctgc tggcaggcg ccctacgc gccacatcc tactgtcgg gccgtctacg ctgaaactgt ccccgcgct ctggttcgca cggagaggag gcgtctctt ggcactact gcgtccgtgc tggcctctt ggccatcgcg ctggagcgca gccacatc ggcgcgagg ggcccccgc ccgtctccag tgggggggcg acgttggcga tggcagccgc ggccggggc gtgtcgtgc tctcgggct cctgcagcg ctagggctgga atgtcctggg tgcctggag gccgttctcca cgtctggcc gcttacgc aaggccacg tgcctctg cgtctcgc ttcgtgggca tcttgggcgc gctcgtgca cctacgcgc gcctactg ccaggtagc gccacgcgc ggcgctgc gccacggccc ggacgtgcgg ggaccactc gcccgggcg cgctgcaagc ccgctcgtt ggccgtgc ccacgtcga gcgtgtgtt cctggctt gtagctgtt ggggccctt ctctcgtg cgtgtcgt acgtggcg ccggcggc accgtctg tactctgca ggccatccc ttctgggac tggccatgc caactact ctgaaccca tcatctac gctacacac ccgcgacgc gccacgcct cctgcgcctg gctcgtgc gacgcact ctgcggcaga gaccgagtg gctccagca gtcggcgagc gcgctgagg cttccggggc cctgcgcgc tgcctgccc cgggcttga tgggagctc agcggtcgc agcgtcact gccacgcgc gacgggctgg acacagcg ctcacagc agcccggt caccacag ccgcggact cgtgtatcag aaccggctgc agactga MESGLLRPAP VSEVIVLHYN YTGKLRGARY QPGAGLRADA VVCLAVCAFI VLENLAVLV LGRHPRFAP MFLLLGSLTL SLLAGAAAYA ANILLSGPLT LKLSPALWFA REGGVFALT ASVLSLLAJA LERSLTMARR GPAPVSSRGR TLAMAAAAG VSLLLGLLP LGWNLGLD ACSTVLPYA KAYVLCVLA FVGILAAICA LYARIYQVR ANARRLPARP GTAGTTSTRA RRPRLALL RTL SVLLAF VACWGPLELL LLDVACPAR TCPVLLQADP FLGLAMANS LNPIYTLN RDLRHALLRL VCCGRHSCGR DPSGSQSQS AAEASGGLRR CLPPGLDGSF SRSERSSPQR DGLDTSGSTG SPGAPTAART LVSEPAAD gttgagcac cgtgtgtcgc cctgtctt ctaggcaga gcggcgagc cctaacccc acagcgtgc agccctgcag ctggccctca gccctgggag gagcctct ttccagaga gacctgccc tgcacttca gcttccctc ggctccgc ttctagagg cctcccgta gcgcactgc ctggagggtt ggtagaggt ctcgtcgtc actgggctt gccggccccg cgtgaggccc agcaaggccc ggtcgtgtg gagggaagtg gggttagaga agcagtagag cagggggctc aggcactgt tgagtaggt gaaggccagg gagccatgga agagctgtt gcaagagctc aggcagcgc aggcggagc ccaanaagcc accatggag ccatgcaaaa gtagtagctg ggcaagagc agtaggtgta gacggccac accatggcca gcacagcat ggccctctgc ggccctgcct accacgttc cggatgtgta gccatgct cacaataga aagagggatga gcgccagtg caggaaagac tccagcaggt acagtgctc gtagcagcgc agcagggcg agggcttctt gccaccccg tagctgaggc agggggggcc ggagagggtg ctacggagca ggtgcccgtt gaggagagc atgcccacc agagtcccc </p>
						<p> atggagtcgg ggc'tgtcgc gccgggcgcg gtagcgagg tcatgtctt gcattaacac tacacggcca agctccgcgg tgcgcgtac cagccgggtg ccggcctgcg ccgcgagcc gtaggtgctt tgggtgtg gccttgcac gtagtagaga atctagcgt gttgtgtg ctaggagcc accgcgctt ccacgtccc atgttctgc tcttgggcag cctcagttg tggatctgc tggcaggcg ccctacgc gccacatcc tactgtcgg gccgtctacg ctgaaactgt ccccgcgct ctggttcgca cggagaggag gcgtctctt ggcactact gcgtccgtgc tggcctctt ggccatcgcg ctggagcgca gccacatc ggcgcgagg ggcccccgc ccgtctccag tgggggggcg acgttggcga tggcagccgc ggccggggc gtgtcgtgc tctcgggct cctgcagcg ctagggctgga atgtcctggg tgcctggag gccgttctcca cgtctggcc gcttacgc aaggccacg tgcctctg cgtctcgc ttcgtgggca tcttgggcgc gctcgtgca cctacgcgc gcctactg ccaggtagc gccacgcgc ggcgctgc gccacggccc ggacgtgcgg ggaccactc gcccgggcg cgctgcaagc ccgctcgtt ggccgtgc ccacgtcga gcgtgtgtt cctggctt gtagctgtt ggggccctt ctctcgtg cgtgtcgt acgtggcg ccggcggc accgtctg tactctgca ggccatccc ttctgggac tggccatgc caactact ctgaaccca tcatctac gctacacac ccgcgacgc gccacgcct cctgcgcctg gctcgtgc gacgcact ctgcggcaga gaccgagtg gctccagca gtcggcgagc gcgctgagg cttccggggc cctgcgcgc tgcctgccc cgggcttga tgggagctc agcggtcgc agcgtcact gccacgcgc gacgggctgg acacagcg ctcacagc agcccggt caccacag ccgcggact cgtgtatcag aaccggctgc agactga MESGLLRPAP VSEVIVLHYN YTGKLRGARY QPGAGLRADA VVCLAVCAFI VLENLAVLV LGRHPRFAP MFLLLGSLTL SLLAGAAAYA ANILLSGPLT LKLSPALWFA REGGVFALT ASVLSLLAJA LERSLTMARR GPAPVSSRGR TLAMAAAAG VSLLLGLLP LGWNLGLD ACSTVLPYA KAYVLCVLA FVGILAAICA LYARIYQVR ANARRLPARP GTAGTTSTRA RRPRLALL RTL SVLLAF VACWGPLELL LLDVACPAR TCPVLLQADP FLGLAMANS LNPIYTLN RDLRHALLRL VCCGRHSCGR DPSGSQSQS AAEASGGLRR CLPPGLDGSF SRSERSSPQR DGLDTSGSTG SPGAPTAART LVSEPAAD gttgagcac cgtgtgtcgc cctgtctt ctaggcaga gcggcgagc cctaacccc acagcgtgc agccctgcag ctggccctca gccctgggag gagcctct ttccagaga gacctgccc tgcacttca gcttccctc ggctccgc ttctagagg cctcccgta gcgcactgc ctggagggtt ggtagaggt ctcgtcgtc actgggctt gccggccccg cgtgaggccc agcaaggccc ggtcgtgtg gagggaagtg gggttagaga agcagtagag cagggggctc aggcactgt tgagtaggt gaaggccagg gagccatgga agagctgtt gcaagagctc aggcagcgc aggcggagc ccaanaagcc accatggag ccatgcaaaa gtagtagctg ggcaagagc agtaggtgta gacggccac accatggcca gcacagcat ggccctctgc ggccctgcct accacgttc cggatgtgta gccatgct cacaataga aagagggatga gcgccagtg caggaaagac tccagcaggt acagtgctc gtagcagcgc agcagggcg agggcttctt gccaccccg tagctgaggc agggggggcc ggagagggtg ctacggagca ggtgcccgtt gaggagagc atgcccacc agagtcccc </p>

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccaccgg gcagctggcc ccacggagc acggctcagc acggtgggg gcggcaccac ctccaggtag cggttgagtg cgatggctgt gaggaaagaca acgcctggccg tgcgggtgtgtt ggcagacatg aagagggtga ctctgcaggc agcagcccca aagcgccagg tctcatggag gaggtagtag tccacgcgga ggggcagggt gctgaltcagg aggaagttag cggccaccag gctgaccagg aacaccgtgt tggaggtcca gggccgcgtg tggatgcaga agatgaagag ggcacaactg tccccacca ggccaggac aaactccagg gccaggatg gtgccaggaa ggcagacacc agcagaggag aggtgggggt gcaggggccct ccaggagacc cccccacagt ggtaaggc</p> <p>MELHNLSSPS PLSLSSSVLPP SFSPSPSSAP SAFTTVGGSS GPCCHPTSS LVSAFLAPIL P Homo sapiens</p> <p>ALEFVLGLVG NSLALFICI HTRPWTSTNV FLVSLVAADF LLSINLPLRV DYLLHETWR FGAAACKVNL FMLSTNRTAS VVELTAIALN RYLKVVQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLL STFGSPCLS YRVGTKPSAS LRWHQALYLL EFLPLALIL FAIVSIGLTI RNRGLGQAG PQRAMRVLAM VVAVYTICFL PSIIFGMASM VAFWLSACRS LDLCQLFHG SLAFTYLSNV LDPVLYCFSS PNFLHQSRAL LGLTRGRQP VSESSYQPS RQWRYREASR KAEATGKLKV QGEVSLEKEG SSQG</p>	
566	189904	Purnergic Receptor P2U2 (GPR91)	NM_033050	<p>ggatgggt taactcagca gaattgttg aacaactacg acatgctggg gaatcggca tggaaigcaa ctgcaaaaa A Homo sapiens</p> <p>ctggcggca gcagaggctg cctggaaaa gtaiaacct tccattttt algggatga gtctgtgtg ggagtccttg gaaataccat tgtgtttac ggctacatct tctctcga gaactggaa agcaglaala ttatctct taactctct gtctcgtact tagctttct gtgcacctc ccatgctga taaggagta tggcaatga aactggatat atggagactg gctctgcata agcaacogat atgtgttca tggcaacct talacca gca tctcttct cactttatc agcatagatc galactgat aataagat ctctccgag aacacctct gcaaaagaaa gagtttgta tttaactc ctggccatt tgggttag taacctaga gttactiacc atactccc ttataatcc tgttataact gacaalgca ccacctgaa tgaattgca agtctggag acccaacta caacctatt tacagatgt gtctaaact gttgggttc ctattctc tttttgtat gttgttctt tattacaaga tigtctct cctaaagcag aggaataggc aggttgctac tgcctgccc ctgaaaa gctcaactt ggctcatg gcagtggtta tctctctgt gcttttaca cctatcag tcatgggaa tgtgaggatc gcttcagcc tggggagtgt gaagcagat cagtgacac aggtgtgtt caactcctt tactatgta caggccctt ggctttctg aacagtga tcaacctgt ctctattt ctgtggag atcactcag ggacatgctg atgaatcaac tgagacaaa ctcaaatcc cttaactct tttagcagtg ggctcatgaa ctctactt cattcagaga aaagtggagg gcttgtaaa cagatgtgtc tacagatga tctgtaagcc agtlacagt tgccttaact catagacatc aatcagagag tgcacagat ttaaactga tctaaagaca agtgtaccc agagtatgtg aagaatagg gacgacaga atgtactgt tcttctct aagaatgaa aggagtga ctgcttag tttggcag taactcaaa alactaggta gataaggct tctcaalca gtcaaaaaat ggaagatata, taagcaaca agtgtgtc attgatcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNAATCKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYFSLKN P Homo sapiens</p> <p>WNSSNYLNF LSVSDLAFLC TLPMLRSYA NGNWTYGDVL CINSRYVLHA NLVTSILFLT FISIDRYLII KYPFREHLLQ KKEFALISL AIWVLVLEL LPILPLNPV ITDNGTTEND FASSGDPNYN LIYSMCLTL GFLPLFVMC FFYKIALFL KQNRNQVATA LPLEKPLNV IMAVVIFSVL FPHYVMRNV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YELLGDHFRD MLMNQLRHNH KSLTSFSRWA HELLSFREK</p>	
567	189904	Purnergic Receptor P2U2 (GPR91)	NP_149039.1	<p>ggagccatg ctccctggc tctccgagg ggcgcgcgcg gctgccttc gcttgaggca aaagactct tgggaagat A Homo sapiens</p> <p>ggaactcat gtccatttc cagaatgat tccaagccc atcaatggga ccgatactg cgtctcgtg tgaatgact tgaagaactc ctgcatctct gcttgcact tccatcctac tgaatacctg gtctctcgg caggtgtgac tgcgttccat accgggacat ccaacacaac</p>	
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784		

569	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	NP_110411.1	P	Homo sapiens	atttgcgttg tatgaaaca cctacatgaa tatiacatc cctccacct tccagcatcc tgcacctagt ccatgtctta gatatgtt tgaacaatg gctccacig gtttgatc ctgaccgig aatagiatacag ctggtccac aacaccagca gcaatuaaga gctlaaacti gctctctcag ataccctt ctgtataat galuicatt ctgtgtgt ctittcttg gaaatgtgti gtttgctca tgggttacca aaaaagtgc atgaggtctg caataacat cctcttgc agccatgct tgcagacat gttgtctgca gtcgtgaaca tgcctttgc cctggtaact atcttacta cccatggat ttgggaaa tctctgaa tgggtatctg taltgtttc tggttattg tgaagaagg agtagccatc cgtcatca ttagcataga taggttctt attatgtcc agaggcagga taagctaaac ccaatagag ctaaggctt gattgcagt tcttgggcaa cttctttg tgtagtctt cctttagccg taggaaacc cgaactgcag atacctccc gagctccca gttgtgtt ggggtacaaa ccaatccagg ctaccaggct tatgtgatt tgaattctt catctctt ticalacct tcttgtaat actgtacta ttatgggca taccacac cctctggac aatgcttga ggaatccatag ctaccigaa ggtatagcc tcaagcaggc cagcaaacig ggtctatga gtcgtcagag acctttccag atgagcaltg acatgggcti taaaacagt gcttcacca ctattgat tctcttct gcttcatg tctgtggc ccatccacc actlacagcc ttgtggcaac attcagtaag cactttact atcagcaca ctitttgag attagcact ggtctatgig gctctgtac ctcaagctg catgaatcc gctgatctac tactgggaga ttaagaatt ccatgaltgt tgcctggaca tgaatccaa gtcctcaag ttittgccgc agctccctgg tccacaaag cgacggatc gctctatg tgcctatg tgggggaa atcgagcgtt ggttgaata ttggaaactgg ctgacattt ggggtaltgt tgtcttat tgaatga tctcttct catagocct ccaatttat ttitttata gggtttgtgt atgtatgtt gtagcagtg taaagaaga atggttaa tagtttgt accaagaata aataatagga aagtgattac aaataaac tccaggggtc aatagaatc ctaatttag ggtgaggaga ctittttg gtttgggggt ttctctga ttgatttgt tticalagtg ggaatcagga ttgtgcttta ttgagcctgc agttacatt aattgtagt gtttgggtg ctgtaagggt atgtattt gagttaaca agacttttt ttitcggaa gacatgct ctttaccat cacatggag cc
						MVFSAVLTAF HTGTSNTTFV VYENTYMNIT LPPPFQHPDL SPLLRYSFET MAPTGLSSLT VNSTAVPTTP AAFKSLNPL QITLSAIMF ILFVSFLGNL VVCLMVYQKA AMRSAINLL ASLAFADMLL AVLNNPFAL V TILTRWIFG KFFCRVSMF FWLFVIEGVA ILLISDRF LIIVQRQDKL NPYRAKVLIA VSWATSFCA PPLA VGNPDL QIPSRAPQCV FGYYTNPYQ AYVLISLIS FFIPFL VILY SFGILNTRL HNALRIHSP EGICLSQASK LGLMSLQRPF QMSIDMGFKT RAFTTLILF AVFIVCWAPF TTYSLVATFS KHFYVQHNF EISTWLLWLC YLKSALNPLI YYWRKKFHD ACLDMMPKSF KFLPQLPGHT KRRIRPSAVY VCGEHRVV
570	189945	G Protein-Coupled Receptor Dj287g14.2	AK027843	A	Homo sapiens	ttgtctgagt calctctga agcttaaaa acaattgag aatttgccit caagatagac claaatagca calcacatgt gaattatca actcggaaact tggctctcag cgtatccacc cgttaccag ggaacaaigc aatttcaaal tttagcatg gcttccaaag caataatgaa tctgtattcc agatggattt tgaagtgiga caagtggatc cactggcatc tgaattttg cctccaaact tactigagaa titaatgcca gaagatctg tatagttag aagagcacag ttacttct tcaacaaaac tggacttttc caggatgtag gacoccaaag aaaaacttla gttggtatg tgaatggcgtg cagtattgga aacattacta tccagaatct gaaagatcct gttcaataa aatacaaaa lacaagaact caggaaigtc atcatccat ctgtgctctc tgggacttga acaaaaaca aagtttggga ggaatggaaaca cgtcaggatg tttgtcacac agagattcag atgcaagiga gacagtctgc ctgtgtaacc actcacaca ctttggaggt ctgtgggacc ttccaagaag tgcctcacag ttagatgcaa gaaacactaa agtctcact ttcaatct atattgggtg tggaaatct gctattttt cagcagcaac tctctgaca tatgtgtt ttgagaatt gcgaaggat tatccctcca aatcttcat gaacctgagc acagccctgc tgttctgaa tctctctc ctctatgag tgcgtgacac ctcttcaat ttggatggac ttgtcatgc tgtgcagtc ctgtgcat tcttctctt ggcaacctt acctggatgg ggtcagagc aattcacatg tacaatgctc tagttaaagt atttaacact tacaatgcc gatacatct aaaaatcgc alcatlgtct ggggtttgcc tgccttagtg gtagcagtg ttctagcgag cagaacaac aatgaagctt atggaaaaga aagttaaggg aaagaanaag gtgatgaat ctgtgggatt caagatccag tcaatttta tgtgacctgt

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caagcatt accagctg gcttaccg gggagggtg tattcagt
MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRRAQTFN NKTGLFQDVG
PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN
KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR
NTKVLTFISY ICGGSAIFS AATLLTYVAF EKLRDYP SK ILMNLSTALL FLNLLFLLDG
WITSFNV DGL CIAVAVLLHF FLATFTWMG LEAHMYIAL VKVFNTYRR
YLKFCIGW GLPALVSVV LASRNNEVY GKESYGKEG DEFCWQDPV
IFYVTCAGYF GVMFFLNIA MFIIVMVQICG RNGKRSNRTL REEVLRLNLS
VVS LTFLLGM TWGF AFWG PLNPFMYLF SIFNSLQGLF IFIFHCAMKE
NVQKQWRRHL CCGRFR LADN SDWSKTATNI IKKSSDNLGK SLSSSSIGSN
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P Homo sapiens

A Homo sapiens

BAB55406

G Protein-Coupled Receptor
Dj287g14.2

189945

571

NM_032553

G Protein-Coupled Receptor
JEG18

190026

572

573	190026	G Protein-Coupled Receptor JEG18	NP_115942.1	MPANYTCTRP DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFGYVME	P	Homo sapiens
				TKRAVFEMIN LAIADLLQVL SLPLRFYYL NHDWPFPGPL CMFCFYLYKYV		
				NMYASIYFLV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLIICLACV		
				LFPLLRISDD TSGNRKTCFV DLPTNRNVNLA QSVVMVTIGE LIGFVTPLLI		
				VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MLTCAGVFL ICFAPYHFSF		
				PLDFLVKSNE IKSLARRVI LFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD		
				SIQLHAKSFV SNHTASTMTP ELC		
574	190031	G Protein-Coupled Receptor VLGR1	AF055084	atattgcat agtattgcat tgcaggcaga tcccaagg tccatttat gacagcalct ttcgattc ctcacagtti atattctcc	A	Homo sapiens
				catlgcccaa gtttagaac ttattatag ttggcttc gtcaggcac caticattgg gagcaacaca gaaactctgt tcaaaacalc		
				attcaggcaa aagaagaata tttagcgtt gaggatcttt aaaaagtatg cagtaactaa tagaactaag ttgtaggagc taaggaggatc		
				tttaattca tgcatagcaa ttatgatt ttgtgttg ttgtatttt ttattttg attttatga ctltggaaaga gggatattgatt ttacallca		
				agaaaalgga cticagatat alcaacctcc tgaatalaggaa aacalcacca ttgttcgcat cataataalg aaaaalgata		
				acgcagaagg calcatlgaa ttgacccaa agtatalcgc ctccgaagtg gagggaagatg ttgggcgtgat calgalccca		
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				ggcccatlg aattctact cactlgagct actlgaggag cggctcttgg gcgccacctt gtagcagaa tcaataatgc		
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				acccaacac tggggagcct ttactttcc caggtggaac aaagggaagg agtttctg tggagttt ctggccctgg		

575	190031	G Protein- Coupled Receptor VLGR1	AAD55586.1	ggaggactac acatggccta cagacacttc tggatgttgg ttctttgtt catlttcaac agtctgcagg gactttagt ttcatgggt tatltcattt tacacaacca aatgtgtgc cctatgaagg ccagttaac tgggaatg aatgggcatc ctggaccacg cacagcctt ttacgcccg ggatgtggaat gccctctgct ggaggggaaa tgcagagtc caccagaat cttatgggtg ctatggaggga gggtccactt gactggaga gagcatcctt ccaacaggc agtcaggcca gccctgattt aaagccaagt ccacaaatg gagccactt cccgtctctt ggaggatg gccagggtc actgatgc gatgagggtt cccaggagt tcatgattt atatgtcat taaaacttgg tctgtctc agtgcagtg ataagaatc tggcaggc agccaggagg ggggaccctt gactgactcc cagatgttgg agtcaggag galaccalc gccgacact acccttagca cctcaciaac cattgcagc agcacactt catatttga tcatgtttg tgciaaact cttaaagac atccactgt gtaataggaa cctgtgaatt gctatggatg attaataca acgtgatgtt tcatgttga gtaataatc ctgattgtat gtagctgaa aattcactgc talaagaaag gtaggctag ttgtatcag ttaatggat gttcatatc caagatatt agtgtttt ttaatcacc tatatggcta acatgttita atgaagtaa taatcaataa agcaatagaa tct	P	Homo sapiens
				MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI IEFDPKYTAF EVEDVGLIM IPVVRLHGTY GYVTADFISQ SSSASPGGVD YLHGSTVTF QHQGNLSFIN ISIDDNES FEEPIELLT GATGGAVLGR HL VSRHIAK SDSPFGVIRF LNQSKISIAN PNSTMILSLV LERTGGLLGE IQVNWETVGP NSQEALLPN RDIADPVSLG FYFGECEGV RTILTIYPH EEIEVEETFI IKLHL VKGEA KLDSRAKDV LTQEFQDPN GVVQFAPEIL SKKTYSEPLA LEGPLLTFF VRRVKGTFGE IMVYWELSE FDITDFLST SGFTIADGE SEASFDVHLL PDEVPEIEED YVIQLVSEGE GAELDLEKSI TWFSVYANDD PHGVFALYSD QRSILIGQNL IRSIQNITR LAGTFGDVAV GLRISSDHKE QPIVTENAEER QL VKDKGATY KVDVVPKIQ VFLSGSNFT LQLVTVMVG GRFYGMFTIL QEAKSAVLPV SEKAANSQVG FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTIGYAPG LEIPEFIVVG NMTPTLGLS FSHGEQRKV FLWTFSPGW PEAFVLHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQFST SRNIIVSED TQMRLHVQR LFGHSDLIK VSYQTTAGSA KPLEDFEPVQ NGELFFQKFQ TEVDFEITII NDQLSEIEEF FYNLTSVEI RGLQKFDVNW SPRLNLDPSV AVITLDNDD LAGMDISFPE TTVAVAVDIT LIPVETEST YLSTSKITTI LQPTNVVAJV TEATGVSAP EKLVTLHGT AVSEKPDVAT VTANVSIHGT FSLGPSIVI EEMKNGTFN TAEVLIRRTG GFTGNVSITV KTFGERCAQM EPNALPRGI YGISNLWAV EEDFEEQTL TLFLDGERE RKVSQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLHNGIIG FSEESQSGLE LREGAVMRRL HLIVTRQPNR AFEDVKVFWR VTLNKTIVVL QKDGVMNLMEE LQSVSGTTTC TMGQTKCFIS IELKPEKVPQ VEVYFFVELY EATAGAAINN SARFAQIKL ESDQSLSVY FSVGSRLA VA HKKATLISLQ VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE PGQRSTVLDV ILTPETGSLN SFPRFQIVL FDPKGGARD KVVGTANITL VSDADSQAIW GLADQLHQPV NDDILNRVLH TISMVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTENF AFSLLTNVTC GSPGEKSKTI LDSCPYSIL ALHWYPQQIN GHKFEKGED YRIPERLLD VQDAEIMAGK STCKLVQFTE YSSQWFIWG NNLPTLKNKV LSLSVKGQSS QLLTNDNEVL YRIYAAEPRI IPQTSCLLW NQAAASWLSD SQFCKVIEET		

576	190168	G Protein- Coupled Receptor GPR58	NM_014626	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQLFLASA YASQLAEEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFNPVYA ALFTAALVPL TCLVVFVVFV IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMAJR HFWMVLVLFVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEF DLFALKKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiatcat ttatggcagg atccatatic atcaaalat ttggcaatct tggcaatct cctacticaa ggcgtcac acaccaacca actccatcat cctctccatg gccatcacig attccctct gggatcaccc atcagccat atagatgat cagatcgglg gagaacigct ggtatttgg gctiacaatt tgaagattt attatgatt tgaacigatg cttagcataa calccattt tcatcttgc tcagtgccca ttatagatt ttatgata ttatcccat tactttatc caccataata actattccag tcaataaag attgctactt ctatgttgt cggicccctgg agcatggcc ttggggcgg tctctcaga ggcctatgca gatggaatag agggctatga catcttgtt gctgttoca gtctctggcc agtgaigt acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgat gtgggattt acggcaaaa ttitgcagta tccagaaaac algctacgc calcaataac ttggcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctggccaa aactttagga atagtgatag gagttttct attatgttgg ttcttgtt tcttcacaat ttatgtgat ccttttga actttctac tctgttgt ttgttgtatg cctgtgatg gttggctat tttaactcca calgaaatcc gttaaalat ggtttctct atcccgtgt tgcgagagca ctgaatgata ttitgtagg taaatttct agctcatgt locataatc tatttgtt algcaaaaag aaagtgaatga g MYSFMA GSI F ITFGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFDLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYCKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtct ctittcatgt A ccaagtgaata atgtattcgg ttatgactgg agccatgatt allocattat cggaaacttg gtataatagg ttccatac gcatctcaa cagcttcat ctccacaaa ctctcagc ctctccatg caaccacgga ctctctcg ggttttgca ttatggcata cagcataatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatcttc cacctcgtt ccatgtcat tgaccgatt tatggcgtgt gttacocctt acatacaca accaaaatga cgaactccac cataaagcaa ctgtggcat ttgtctggc agttctgtct ctittttt ttgtttatg tctatcigag gccgatgtt ccggtatgca gagctataag atacttgt ctgtctcaaa ttctgtgcc ctactttca acaaatctg ggggacataa ttgtctacia calgtttt taccttggc tccatcatg ttgtattia tggcaaaic ttatcgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaaagggg gcagtgaata aacacctac caagaaaaag gacaggaaaag cagcgaagac actgggata gtaatggggg tcttctggc ttgtgttg cctgtttc ttgtgtct gatgacca taccatgact actccactoc calactata ttggatctt tagtgtgct ccgttact aacttactt gcaacctct tatcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc loccatcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens
577	190168	G Protein- Coupled Receptor GPR58	NP_055441.1	MYSEFMA GSI F ITFGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFDLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYCKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtct ctittcatgt A ccaagtgaata atgtattcgg ttatgactgg agccatgatt allocattat cggaaacttg gtataatagg ttccatac gcatctcaa cagcttcat ctccacaaa ctctcagc ctctccatg caaccacgga ctctctcg ggttttgca ttatggcata cagcataatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatcttc cacctcgtt ccatgtcat tgaccgatt tatggcgtgt gttacocctt acatacaca accaaaatga cgaactccac cataaagcaa ctgtggcat ttgtctggc agttctgtct ctittttt ttgtttatg tctatcigag gccgatgtt ccggtatgca gagctataag atacttgt ctgtctcaaa ttctgtgcc ctactttca acaaatctg ggggacataa ttgtctacia calgtttt taccttggc tccatcatg ttgtattia tggcaaaic ttatcgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaaagggg gcagtgaata aacacctac caagaaaaag gacaggaaaag cagcgaagac actgggata gtaatggggg tcttctggc ttgtgttg cctgtttc ttgtgtct gatgacca taccatgact actccactoc calactata ttggatctt tagtgtgct ccgttact aacttactt gcaacctct tatcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc loccatcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens
578	190170	G Protein- Coupled Receptor GPR57	NM_014627	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQLFLASA YASQLAEEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFNPVYA ALFTAALVPL TCLVVFVVFV IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMAJR HFWMVLVLFVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEF DLFALKKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiatcat ttatggcagg atccatatic atcaaalat ttggcaatct tggcaatct cctacticaa ggcgtcac acaccaacca actccatcat cctctccatg gccatcacig attccctct gggatcaccc atcagccat atagatgat cagatcgglg gagaacigct ggtatttgg gctiacaatt tgaagattt attatgatt tgaacigatg cttagcataa calccattt tcatcttgc tcagtgccca ttatagatt ttatgata ttatcccat tactttatc caccataata actattccag tcaataaag attgctactt ctatgttgt cggicccctgg agcatggcc ttggggcgg tctctcaga ggcctatgca gatggaatag agggctatga catcttgtt gctgttoca gtctctggcc agtgaigt acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgat gtgggattt acggcaaaa ttitgcagta tccagaaaac algctacgc calcaataac ttggcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctggccaa aactttagga atagtgatag gagttttct attatgttgg ttcttgtt tcttcacaat ttatgtgat ccttttga actttctac tctgttgt ttgttgtatg cctgtgatg gttggctat tttaactcca calgaaatcc gttaaalat ggtttctct atcccgtgt tgcgagagca ctgaatgata ttitgtagg taaatttct agctcatgt locataatc tatttgtt algcaaaaag aaagtgaatga g MYSFMA GSI F ITFGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFDLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYCKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtct ctittcatgt A ccaagtgaata atgtattcgg ttatgactgg agccatgatt allocattat cggaaacttg gtataatagg ttccatac gcatctcaa cagcttcat ctccacaaa ctctcagc ctctccatg caaccacgga ctctctcg ggttttgca ttatggcata cagcataatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatcttc cacctcgtt ccatgtcat tgaccgatt tatggcgtgt gttacocctt acatacaca accaaaatga cgaactccac cataaagcaa ctgtggcat ttgtctggc agttctgtct ctittttt ttgtttatg tctatcigag gccgatgtt ccggtatgca gagctataag atacttgt ctgtctcaaa ttctgtgcc ctactttca acaaatctg ggggacataa ttgtctacia calgtttt taccttggc tccatcatg ttgtattia tggcaaaic ttatcgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaaagggg gcagtgaata aacacctac caagaaaaag gacaggaaaag cagcgaagac actgggata gtaatggggg tcttctggc ttgtgttg cctgtttc ttgtgtct gatgacca taccatgact actccactoc calactata ttggatctt tagtgtgct ccgttact aacttactt gcaacctct tatcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc loccatcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens
579	190170	G Protein- Coupled Receptor	NP_055442.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQLFLASA YASQLAEEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFNPVYA ALFTAALVPL TCLVVFVVFV IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMAJR HFWMVLVLFVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEF DLFALKKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiatcat ttatggcagg atccatatic atcaaalat ttggcaatct tggcaatct cctacticaa ggcgtcac acaccaacca actccatcat cctctccatg gccatcacig attccctct gggatcaccc atcagccat atagatgat cagatcgglg gagaacigct ggtatttgg gctiacaatt tgaagattt attatgatt tgaacigatg cttagcataa calccattt tcatcttgc tcagtgccca ttatagatt ttatgata ttatcccat tactttatc caccataata actattccag tcaataaag attgctactt ctatgttgt cggicccctgg agcatggcc ttggggcgg tctctcaga ggcctatgca gatggaatag agggctatga catcttgtt gctgttoca gtctctggcc agtgaigt acaagctat gggggaccac ctgtttatg gcaggtttct tcatctcgg gtctatgat gtgggattt acggcaaaa ttitgcagta tccagaaaac algctacgc calcaataac ttggcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctggccaa aactttagga atagtgatag gagttttct attatgttgg ttcttgtt tcttcacaat ttatgtgat ccttttga actttctac tctgttgt ttgttgtatg cctgtgatg gttggctat tttaactcca calgaaatcc gttaaalat ggtttctct atcccgtgt tgcgagagca ctgaatgata ttitgtagg taaatttct agctcatgt locataatc tatttgtt algcaaaaag aaagtgaatga g MYSFMA GSI F ITFGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFDLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYCKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtct ctittcatgt A ccaagtgaata atgtattcgg ttatgactgg agccatgatt allocattat cggaaacttg gtataatagg ttccatac gcatctcaa cagcttcat ctccacaaa ctctcagc ctctccatg caaccacgga ctctctcg ggttttgca ttatggcata cagcataatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatcttc cacctcgtt ccatgtcat tgaccgatt tatggcgtgt gttacocctt acatacaca accaaaatga cgaactccac cataaagcaa ctgtggcat ttgtctggc agttctgtct ctittttt ttgtttatg tctatcigag gccgatgtt ccggtatgca gagctataag atacttgt ctgtctcaaa ttctgtgcc ctactttca acaaatctg ggggacataa ttgtctacia calgtttt taccttggc tccatcatg ttgtattia tggcaaaic ttatcgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaaagggg gcagtgaata aacacctac caagaaaaag gacaggaaaag cagcgaagac actgggata gtaatggggg tcttctggc ttgtgttg cctgtttc ttgtgtct gatgacca taccatgact actccactoc calactata ttggatctt tagtgtgct ccgttact aacttactt gcaacctct tatcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc loccatcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens

581	190188	G Protein-Coupled Receptor LGR6	AAG17168.1	<p>ttcccttcc tctctcccc tgggtgaatg atggctgctt ctataacaaa tacaacaaa acicagcagt gtagatata gcaggatggc cagtiactcg gctccaciga tcaactctct ccctgaccca tcaacacgg gtagctcttg gcccttgctt cccctggctt tctcagctt caccitgata ctgggctctt tctctgcat gctgaagct gtagacaga gaccitggact ttgtctgct taagggaat gagggagga aagacagiga aggggtggag gggtgacca</p> <p>MRLEGEGRSA RAQONLSRAG SARRGAPRDL SMNNLTELQP GLFHHLRFLF ELRLSGNHL S HPGQAFSL YSLKILMLQN NQLGIPAEA LWELPSLQSL DLNVNKLQEF PVAIRTLGRL QELGFHNNNI KAPEKAFMG NPLLQTIHFY DNPIQVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTT S LEILTLTRAG IRLPSGMCQ QLPRLRVLEL SHNQIEELPS LHRQCQLEEI GLQHNRIWEI GADTFSQLSS LQALDLSWNA IRSIPEAFS TLHSL VKLDL TDNQLTTLPL AGLGLMHLK LKGNLALSQA FSKDSFPKLR ILEVPIAYQC CPYGMCAFF KASGQWEAED LHLDEESSK RPLGLLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP GPFKPCEYLF ESWGIRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPPVKF VVGAIGANT LTGISCGLLA SVDALTFQGF SEYGARWETG LGRATGFLA VLGEASVLL LTLAAVQCSV SVSCVRAYGK SPSLGSVRAG VLGCLALAGL AAALPLASVG EYGASPLCLP YAPPEGQPA L GFTVALVMM NSFCLVAVG AYTKLYCDLP RGDFAVWDC AMVRHVAVLI FADGLLYCPV AFLSFASMLG LFPVTPEAVK SVLLVVLPL ACLNPLL YLL FNPFRDDLRL RLRPRAGDSG PLAYAAAGEL EKSSCDSTQA LVAFSDVDLI LEASEAGRP GLETYGFPSV TLISCQPGA PRLEGHCHVE PEGNHFGNPQ PSMDGELLRL AEGSTPAGGG LSGGGGFQPS GLALLHTY</p>	P.	Homo sapiens
582	190144	G Protein-coupled Receptor GPR101	AF411115	<p>atgacgtcca cctgcaccaa cagcacggcg gagagtaaca gcagcacac gtagcagcc cctccaaaa tggccatcag cctggccac ggccatcacc gctcaacgt gctggtaic ttccctggc cctcttggc cggcaacata gtagtggcg tagtggca gcgcaagccg cagctgctgc aggtgaccaa cctgttaic tttaacctc tggtaaccg cctgctgcag attctgctg tggccctcg ggtggggggc accctgctg cctctctg gccctcaac agccactct gcacggccct ggttggctc accacgtt tgccttgc cagcgtcaac accattgct ggtgctcagt gtagcgttac ttgtccatca tccacctc cctctaccg tccaagatga cccagcgccg cgggttacctg cctctctag gcacctggat tgggtccalc ctgcagagca cctctccact ctacggctgg ggccaggctg cctttgtag gcgcaatgct cctgctcca tgaatgggg ggccagcccc agctacata ttctagcgt ggtgtcttc atgtctalc cactgattt cagtattgc tgcactccg tgggttctg tgcagccccg aggcagcag ccttgcctga caatgtcaag agcacacagct tgggaagtcg agtcaaggac tgggtggaga atgaggtatga agagggagca gtagaagaaagg agtagttcca gtagtagaagt tagtttccg gccagcatga aggtgaggtc aaggccaaagg agggcagat gtagaagcaag gacggcagcc tgaaggccaa tgaaggccaa gtagagagc acggggagcca gtagagtag tgaagggc aggggcagc agtagagcag acgggtggcca gtagagggcag cagtagaggtt aaggagagga gcaccaaagt tgaaggagac agcatgaagg cagacaagggg tgcacagag gtaacacagt gcagcttga ctgggttga gtagacatgg agtttggga agacagacalc aattcagtg aggttagcgt cgaaggcagtg aacatccgg agagcctccc accagctct cgttaacaga acagcaacc tctctgccc aggtgtcacc agtgcnaagc tgcnaagtg atcttcalca tcaattctc ctatgtcta tccctgggc cctactgctt tttagcagc ctggccgtgt ggttggtagt cgaagccagc gtaacacagt ggttggalc calaatc tggctttct tctgcagtg ctgcacacc cctatgct atggctalca gcacaagacc attaagaagg aatccaggaa catgtgaa gtagttctt gcaaggga gccccgaaa gaaagtagcc acccagacct gcccggaaca gaggttggga ctgaaggcaa gattgtcc tctacgatt ctgtacttt tcttga</p>	A	Homo sapiens

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1	MTSTCTNSTR ESNSSHTCMP LSKMPISLAH GIRSTVLVI FLAASFVGNL VLALVLQRKP P QLLQVTNRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL THLFAFASVN TIVLVSDRY LSIHPLSY SKMTQRRGYL LLYGTWIVAI LQSTPPLYGW GOAAFDERNA LCSMIWVASP SYTILSVVSF IVPLIVMIA CYSVVFCAR QHALLYNVK RLSLEVRVKD CVENEDEEGA EKKEEFQDES EFRRQHEGEV KAKEGRMEAK DGSLLKAKES TGTSSESSVEA RGSEEVRESS TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMEFGEDDI NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IFIIFSYVL SLGPYCFLAV LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVYGYMHKT IKKEIQDMLK KFFCKEKKPPK EDSDPDLPGT EGGTEGKIVP SYDSATFP	Homo sapiens
584	190418	Inflammation-Related G Protein-Coupled Receptor EX33	NM_020370	taactgtcca ccagaaagga ctgctcttg ggtgaatga acttctcca ttatagaag aattgaaggc tgaagaaac agcctciatc A atgttggaaca gctctgacgc caactctcc tgciaacatg agtctgtgct gggctatcgt tatgtgtcag ttatgtgggg gggtgtgtgtg gctgtgacag gcaccgtggg caatgtgctc accctactgg ccttggccat ccagcccaag ctccgtacc gattcaacct gctcatagcc aacctacac tggctgatct cctctatgc agctctctc agccctctc tgttgacacc taccctacc tgcacttggcg caccgttggc acccttgcga gggatattgg gctctcctt ttgcctcca attctgtct catcttgacc ctctgcctca tgcgacttggc acgtaccct cctattggcc acciaaagct ttctcccaa gttttcagtg ccaagggggat agtgcctggca ctgggtgagca cctgggtgtt gggcgttggcc agctttgtc cctcttggcc tttatata cttgttaccctg tagtctgtcac ctgcagcttt gaccgcatcc gaggccggcc ttaccacc atctcatgg gcatctact tgtcttggg ctacgacgtg ttggctatct ctattggctc atccacgcc aggtcaaacg agcagcacag gcacttggacc aatacaagt gcgacaggca agcatccat ccaacatgt ggccaggact gatgaaggcca tgccttggctg ttccaggag ctggacagca ggtatgcatc aggaaggacc agtgaaggggga tttcatctga gccatcagt gctgccaca ccagacctt ggaaggggac tcatcagaag tgggagagacca gatcaacagc aagagagcta agcagatggc agagaaagc cctccagag catctgcca agccagcca attaaaggag ccagaagagc tccggattct tcatcggaat ttgggaaggt gactcgaatg tggtttggct tgttctctg ctgttccctg agctacatcc cctcttgcct gctcaacatt ctggatgcca ggtccagggc tcccggggtg gtccacatgc ttgtggccaa cctacacttgg ctcaatgggt gcataaacc tgtgtctat gcagccatga accgccaatt ccgccaagca tttggctcca tttaaagag agggcccccgg agtttccala ggtccctalia gaactgtgac cctatgaccc agaaltcagg actgtctct cctcagggacca agtggccagg taalaggaga atagggtgaaa taacacatgt gggcatcttc acuaaatct ctccagcc tcccaaatca agtcttcca tcaattgalt aatgtttcag cctatgactg cccaaggagt attataat attataat gaattctgtg cttttaaaaa aaaaaagaaa aaaaaaaaa aaaaaaaaaa aaaaaa	Homo sapiens
585	190418	Inflammation-Related G Protein-Coupled Receptor EX33	NP_065103.1	MWNSSDANFS CYHESVLGYR YVAVSWGTVV AVTGTGTVGNVL TLLALAIQPK P LRTFRNLIA NLTLADLLYC TLLQPFSDVT YLHLHWRGTA TFCRVFGLLL FASNSVSILT LCLIALGRYL LIAHPKLFPO VFSAGKIVLA LVSTWVVGVA SFAPLWPIYI LVPVCTCSF DRIRGRPYTT ILMGIVFVLG LSSVGIFYCL IHRQVKRAAQ ALDQYKLRQA SIHNSHVART DEAMPGRFQE LDSRLASGGP SEGISSEPV AAATTQLEGD SSEVGDQINS KRAKQMAEKS PPEASAKAQP IKGARRAPDS SSEFGKVTRM CFAVLCFAL SYTPFLLNI LDARVQAPRV VHMMLAANLTW LNGCINPVL Y AAMNRQFRQA YGSILKRGPR SFHRLH ctttgttca gagctaaacc agttttct ctctccacag caaatatct gcacagatc atctctccc agctgttggc aagaagacag aagctctct acaactatct ctggcactc gctgttgcg acatctgtt cctttttc atagtgttg ttgacttct gttggagat ttcatctga acatgcagat gcttcaggc cccgacaaga tcatagaagt gcttggattc tcatcatcc aacctccat atggattact	Homo sapiens
586	190419	G Protein-Coupled Receptor Ls190419	AJ303165		Homo sapiens

587	190419	G Protein- Coupled Receptor Ls190419	CAC33085.1	LCFRKAPVFL LSTANILTVI ILSQL VARRQ KSSVNYLLAL AAADILVLFF IVFVDFLLED FILNMQMPQV PDKIEVLEF SSHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTRKVI VSVYITCFLT SIPYYWPNPNI WTEDYISTSV HHVLIWHCF TVYL VPCSF FILNSIIVYK LRRKSNFRLR GYSTGKTTAI LFTITSFAT LWAPRIIMIL YHLYGAPIQN RWL VHIMSDI ANMLALLNTA INFFLYCFIS KRFRIT	P	Homo sapiens
588	190427	Cysteiny Leukotriene CYSLT2 Receptor	NM_020377	aaagtctcta agttgaagc gtcagcttca accaaacaaa ttaatggcta ttclacatc aaaaalcagg aaalttaaat ttattatgaa atgtaatgca gcatgtagta aagacttaac cagtgttta aaacticaact ttcaaaagaaa agatagtatt gctcccggtt tcaataaac ctagagaat gtaacagta agcaagaagg aaaaaggagaa altcaaaaag taacttttg tgcctgtttc tttaaacc agcaltgga gaaatltat gctctgcaa ccalccatct cgtatcaga aalggaacca aatggcacct tcaagcaataa caacagcagg aacigcaca tgaanaact caagagagaa ttittccaa tigtatcti gataatit ttctggggag tctgggaaa tgggtttgtcc atatagttt tctgcagcc ttataagag tccatcttg tgaacgtttt catgctaact ctggccaatt cagatctct gttcalaagc acgtctccct tcaaggctga ctatattt agaggttcca atggatatt tggagacctg gcttgcagga ttatgctta ttctgtat gtcaacatg acagcagat ttattcttg accgtctga gttgttgcg ttcttgcg agttgtacc cctttgggtt tctgcatgic accagcatca ggaagtgcctg galcctctg gggatcatat ggaatctat catggcttcc tcaataagc tcttgagacag tggctctgag cagaaaggca gttgcacatc atgcttagag ctgaatctt ataaattgc taagctgca accatgaact atattgctt gggtggggc tgcctgtctg calttttac actcagcatc tgtatctgc tgaatctg ggttctgtta aagtgagagg tccagaalc ggggctgcgg gtttccaca ggaaggcact gaccacacat atcaacat tgaatctt cttctgtt ttccgtct atcacacat gaggaaccgt cactgacga catggaaagt gggtttatgc aagagacagac tgcataaagc ttgggtatc acacgtggct tggcagcagc caatgctgc ttcaatctc tgccttatta cttgtctagg gaaatatta aggacagact aaagtctgca ctcagaaaaag gocatccaca gaaggcaaa acaagtgctg ttitccctgt taggtgtggt tggaaagg aaacaagt ataaggagct cttagatgag acctgtttt gtaactgt gttccatctt attactat agtctccaaa tgaattgta ttatcac tcccaacaaa tgttgatct taatattag ttgaccalia ctttgtaa taaggacctac ttcaaaaat ttatcagtg tatttcagt tgttgatct taatgaggga taccaggagg aaaaacctta cttagatct gttgggtgaa atalcagact ggggaaaaat gcaaaagcaca ttggatctta ctttttca gatattgaac cagatctctg gcccacagg ctttcaaat tctcaaaag agccaacat tcccagct ctocagctcc cctgtctct tcaatccctt gaaatataagc aactaacagc gctactggaa gcccagagc agaaaaaag cacatctta gttacaggga aagactaat gttgaaaggga agctctgtct atacaagaag agcatcaagt cccaagttaag gacagtga gaaaaggggg agaaagtatg gaggcaaaaaga gaaatgggcaa taagtggagg aaggaagaaat ttcatttgg attgaggag aggttttaac acactgaagg caacctatt tctctgtt cttctgtcc aggtgtatag gaaaggacag aaaagttag ggaagatctg gggcattgccc ctaggaaatg aagaattgt gtaataagag gaaagggtgat calcaaggac atgtatctca aatttttt gaaatgagag ttatgtgacc ttgcttccc ataatcat ttggatggaa gccaanaata aaaggaggtc ctctgaggat taagggtgag cactcaagggg aagatggag tagggggcaa atagcaaaaag ttgttgcact cctgaatc tattaacat tccgcaagag atgagtaggg agatgctgccc ttccctttg agatagtgta gaaaacact agatagtg agaggttctt ttctgtccat tgaacaagg ctgaaggatc taaccaactc taccatag accatgttac tgaacaact tgaatgag	A	Homo sapiens

589	190427	Cysteiny Leukotriene CYSLT2 Receptor	NP_065110.1	<p>ctccctgcag ggagattat gccaggcact ttacattgt tgaatcatt tgaatcac accaaagcic tgaattccat ttacagctg aagaaatiga agcttiagaga aataaagag ctgtttaag ttacacagc tagiaaagt ttataaalc tctgtgcaga agtgttgct gggtgtctc ccaccacta ccttgtaaa ctccaggaa gattgtga aagcttgaat aaaagctgtc ctctctacc aattctcc cctctcac tctacaaga aaaccaaag ttctctca gattgtga ctatagiac agtaagggg ggaagtata tggcattctg aaataggga gggactaagt cagctgtcat actaac MERKFMSLQP SISVSEMEPN GTFNNNSRN CTIENFKREF FPVYLIFF WGVLGNGLSI P Homo sapiens YVFLQPYKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRIMSYSLYV NMYSSIVFLT VLSVVRFLAM VHPRLHLVT SIRSAWILCG IHWILMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVGCLLPFFTLISIC YLLIIRVLLK VEVPESGLRV SHRKALTTHI ITLIIFLCF LPYHTLRTVH LTTWKVGLCK DRLHKALVIT LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVS VWL RKEITRV A Homo sapiens cctgtgccc agtgtctgga caaatctaa cctctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgtca gctacagga tggggattac agggacctct cggaccgccc ttgtggactgc ctggatggcg cctgcctggc catcgaccgg ctgcgcgtgg ccccgtccc actgtatgoc gccalttccc ttgttgggtt gccgggcaat gccatgggg cctgggtggc tgggaagggtg gccgcgcgga ggggtgggtgc cacttgggtg ctccaccgg cgttggcga ttgctgtgc tgtttgtct tgcctactt gccatgccc attgcccgtg gaggccactg gccgtatggg gcatggggct gtcggggcgt gccctccatc atctgtctga ccatgtatgc cagctgtctg ctctggcag ctctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgtct acgggtcagc gggcgtgtcg ggtgtgggtg gctgtgggg cagcctggac actggcctg ctgtcacog tgcctctcgc cactaacgc cggctgcac aggaacacti ccaagccgg ctgcagctg tgggtggacta cggcggctcc tccagaccg agaatgggt gactgccalc cggttctt ttgcttct gggggccctg gtcggccgtg ccagctgcca cagtggcctc ctgtgtggg cagcccgacg ctgcgcggcg ctggggcag ccatgtgtt ggggttttt gtctgtggg caactacca cctgtgggg ctgtgtctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct ggggcgtgaa cccctcagc tggggctgc cctgtcac agctgtctc atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg ccaactgtct gtactgggc ctgtggggag tccagggcc aggaagaaag tgtggacagc aagaaatcca ccagccatga cctgtctcg agatgggag tgggtgtgg agagacattg tgggtgtgta tcttctatc tcatltcaca agactgggti caggcatagc tggatccagg agctcaatga tgtctcatt ttatcttc ctatcaca cagatatcca tcatgacti gctatgtga aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtctt ggggtcagc ctctgggtc tctgaccc tgggagggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgtct gggggggctg ttcccctgg gcgagccga ggaagctggc ctccgagcc ggacagggc cagcagccct gttgtcacca ggtacagag tgggacggcc tgggtcgggg tcaagggtgac caggtctggg gtgtctcga gcttggggccg aggttggccat ctgcgtgtct gttgtggccc aggttctct caaacggcti gcttggggc ctggccatga aaatggccgt ggaaggagatc aacaacaagt cggatctgt gcccgggctg gcttgggtt acgacctt tgatagctg tggagcctg tgggtggccat gaagccagc ctatgttcc tggccaaggc aggcagcccg gacatggcg</p>
590	190437	G Protein- Coupled Receptor C5L2	NM_018485	<p>ctgtgtgccc agtgtctgga caaatctaa cctctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgtca gctacagga tggggattac agggacctct cggaccgccc ttgtggactgc ctggatggcg cctgcctggc catcgaccgg ctgcgcgtgg ccccgtccc actgtatgoc gccalttccc ttgttgggtt gccgggcaat gccatgggg cctgggtggc tgggaagggtg gccgcgcgga ggggtgggtgc cacttgggtg ctccaccgg cgttggcga ttgctgtgc tgtttgtct tgcctactt gccatgccc attgcccgtg gaggccactg gccgtatggg gcatggggct gtcggggcgt gccctccatc atctgtctga ccatgtatgc cagctgtctg ctctggcag ctctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgtct acgggtcagc gggcgtgtcg ggtgtgggtg gctgtgggg cagcctggac actggcctg ctgtcacog tgcctctcgc cactaacgc cggctgcac aggaacacti ccaagccgg ctgcagctg tgggtggacta cggcggctcc tccagaccg agaatgggt gactgccalc cggttctt ttgcttct gggggccctg gtcggccgtg ccagctgcca cagtggcctc ctgtgtggg cagcccgacg ctgcgcggcg ctggggcag ccatgtgtt ggggttttt gtctgtggg caactacca cctgtgggg ctgtgtctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct ggggcgtgaa cccctcagc tggggctgc cctgtcac agctgtctc atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg ccaactgtct gtactgggc ctgtggggag tccagggcc aggaagaaag tgtggacagc aagaaatcca ccagccatga cctgtctcg agatgggag tgggtgtgg agagacattg tgggtgtgta tcttctatc tcatltcaca agactgggti caggcatagc tggatccagg agctcaatga tgtctcatt ttatcttc ctatcaca cagatatcca tcatgacti gctatgtga aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtctt ggggtcagc ctctgggtc tctgaccc tgggagggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgtct gggggggctg ttcccctgg gcgagccga ggaagctggc ctccgagcc ggacagggc cagcagccct gttgtcacca ggtacagag tgggacggcc tgggtcgggg tcaagggtgac caggtctggg gtgtctcga gcttggggccg aggttggccat ctgcgtgtct gttgtggccc aggttctct caaacggcti gcttggggc ctggccatga aaatggccgt ggaaggagatc aacaacaagt cggatctgt gcccgggctg gcttgggtt acgacctt tgatagctg tggagcctg tgggtggccat gaagccagc ctatgttcc tggccaaggc aggcagcccg gacatggcg</p>
591	190437	G Protein- Coupled Receptor C5L2	NP_060955.1	<p>ctgtgtgccc agtgtctgga caaatctaa cctctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgtca gctacagga tggggattac agggacctct cggaccgccc ttgtggactgc ctggatggcg cctgcctggc catcgaccgg ctgcgcgtgg ccccgtccc actgtatgoc gccalttccc ttgttgggtt gccgggcaat gccatgggg cctgggtggc tgggaagggtg gccgcgcgga ggggtgggtgc cacttgggtg ctccaccgg cgttggcga ttgctgtgc tgtttgtct tgcctactt gccatgccc attgcccgtg gaggccactg gccgtatggg gcatggggct gtcggggcgt gccctccatc atctgtctga ccatgtatgc cagctgtctg ctctggcag ctctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgtct acgggtcagc gggcgtgtcg ggtgtgggtg gctgtgggg cagcctggac actggcctg ctgtcacog tgcctctcgc cactaacgc cggctgcac aggaacacti ccaagccgg ctgcagctg tgggtggacta cggcggctcc tccagaccg agaatgggt gactgccalc cggttctt ttgcttct gggggccctg gtcggccgtg ccagctgcca cagtggcctc ctgtgtggg cagcccgacg ctgcgcggcg ctggggcag ccatgtgtt ggggttttt gtctgtggg caactacca cctgtgggg ctgtgtctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct ggggcgtgaa cccctcagc tggggctgc cctgtcac agctgtctc atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg ccaactgtct gtactgggc ctgtggggag tccagggcc aggaagaaag tgtggacagc aagaaatcca ccagccatga cctgtctcg agatgggag tgggtgtgg agagacattg tgggtgtgta tcttctatc tcatltcaca agactgggti caggcatagc tggatccagg agctcaatga tgtctcatt ttatcttc ctatcaca cagatatcca tcatgacti gctatgtga aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtctt ggggtcagc ctctgggtc tctgaccc tgggagggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgtct gggggggctg ttcccctgg gcgagccga ggaagctggc ctccgagcc ggacagggc cagcagccct gttgtcacca ggtacagag tgggacggcc tgggtcgggg tcaagggtgac caggtctggg gtgtctcga gcttggggccg aggttggccat ctgcgtgtct gttgtggccc aggttctct caaacggcti gcttggggc ctggccatga aaatggccgt ggaaggagatc aacaacaagt cggatctgt gcccgggctg gcttgggtt acgacctt tgatagctg tggagcctg tgggtggccat gaagccagc ctatgttcc tggccaaggc aggcagcccg gacatggcg</p>
592	190438	G Protein- Coupled Receptor Ls190438	LG94114	<p>ctgtgtgccc agtgtctgga caaatctaa cctctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgtca gctacagga tggggattac agggacctct cggaccgccc ttgtggactgc ctggatggcg cctgcctggc catcgaccgg ctgcgcgtgg ccccgtccc actgtatgoc gccalttccc ttgttgggtt gccgggcaat gccatgggg cctgggtggc tgggaagggtg gccgcgcgga ggggtgggtgc cacttgggtg ctccaccgg cgttggcga ttgctgtgc tgtttgtct tgcctactt gccatgccc attgcccgtg gaggccactg gccgtatggg gcatggggct gtcggggcgt gccctccatc atctgtctga ccatgtatgc cagctgtctg ctctggcag ctctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgtct acgggtcagc gggcgtgtcg ggtgtgggtg gctgtgggg cagcctggac actggcctg ctgtcacog tgcctctcgc cactaacgc cggctgcac aggaacacti ccaagccgg ctgcagctg tgggtggacta cggcggctcc tccagaccg agaatgggt gactgccalc cggttctt ttgcttct gggggccctg gtcggccgtg ccagctgcca cagtggcctc ctgtgtggg cagcccgacg ctgcgcggcg ctggggcag ccatgtgtt ggggttttt gtctgtggg caactacca cctgtgggg ctgtgtctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct ggggcgtgaa cccctcagc tggggctgc cctgtcac agctgtctc atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg ccaactgtct gtactgggc ctgtggggag tccagggcc aggaagaaag tgtggacagc aagaaatcca ccagccatga cctgtctcg agatgggag tgggtgtgg agagacattg tgggtgtgta tcttctatc tcatltcaca agactgggti caggcatagc tggatccagg agctcaatga tgtctcatt ttatcttc ctatcaca cagatatcca tcatgacti gctatgtga aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtctt ggggtcagc ctctgggtc tctgaccc tgggagggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgtct gggggggctg ttcccctgg gcgagccga ggaagctggc ctccgagcc ggacagggc cagcagccct gttgtcacca ggtacagag tgggacggcc tgggtcgggg tcaagggtgac caggtctggg gtgtctcga gcttggggccg aggttggccat ctgcgtgtct gttgtggccc aggttctct caaacggcti gcttggggc ctggccatga aaatggccgt ggaaggagatc aacaacaagt cggatctgt gcccgggctg gcttgggtt acgacctt tgatagctg tggagcctg tgggtggccat gaagccagc ctatgttcc tggccaaggc aggcagcccg gacatggcg</p>

P **Homo sapiens**

593 190438 G Protein- Coupled Receptor 322 ENSP000000080
Ls190438

594	190484	G Protein-Coupled Receptor Ls190484	LG95579	AQPVPKWPQL LENMYNLTFH VGGLPLRFDS SGNVDMYDL KLWVWQGSVP RLHDVGRFNG SLRTERLKIR WHTSDNQVRP QACAQKPSR CSRQCQEGQV RRVKGFHSCC YDCVDCEAGS YRQNPDDIAC TFCGQDEWSP ERSTRCFRRR SRFLAWGEPV VLLLLLSL ALGLVLAALG LFWHRDPSL VQASGGPLAC FGLVCLGLVC LSVLLFPQP SPARCLAQQP LSHLPLTGCL STFLQAAEI FVESELPLSW ADRLSGCLRG PWAWL VLLA MLVEVALCTW YLVAFPPEV TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLGT FLVRSQPGRY NRARGLTAM LAYFITWVSF VPLLANVQVV LRPAVQMAGAL LLCVLGILAA FHLPRCYLLM RQPLNTPEF F	Homo sapiens
				tctgactggc tggctctct gctgcccctg gggctcttca ctgctctggt gggccttgggt gttctggac cctcagctgg gggcctggcc A cggggccccc tctggcgggg tctgctggg gcttctct tcaagagcag gaggctggg tgggtctca agggccctc gggtaggatg cgaagatggg gttggggaag ctatcaca gggactgggc acagaaatgg cagcagctgg agggctctgg acgttagt ctgctggg cgggcaca gaactgact gttggctgggc catgaggtt agctgtggct gggctgtggg atccgactgt ggttggccg taggggtcag ctgtggctga gcttgggt ccgctggg ctggagtgt ggggttacct gggttgggc caccgactt atctgact gggcctctgc catggctct ggcagagtgg gacccctcaga atctagctgg gtctgtgct cagttggcgt gaagctggcc cggcctctt cagcagagag tggcgggaag gacgagagca cggagcggcag cagggtccgg aggtcggcac tggccatga gacagaggaag gggctggagc agctgtgag taggtatcag tagtctggagt agaccaggcc cttccagag aggtagccag agtagactt ccacaggaag gccaagtaga gcaagctgggc cagctggtag ggcagctca ggaaccata ggtctgacaga atgtcttgg ccacagggc gaagccccgg caggcttggc gctgtgtt gctgtggcag gtgcagcag ctgtggctt ggtgagcag tggcagacga gcaagcagga gaaagcagag aagccccca ggactccag catctcag gacgtctt cgtgttcca gaagtccagg cagatgacca ggtctgacca ccaagcggca gctcgggga agaccagca gggcagctg aagatgttgg cagacacca gacaccggc cagaccaga gggcagggc gactggcgg tggcaggtt accagtgtt gacagggc agcagggcag ggttgggtt gaggggggc agcaggaaga ggcgggga gtaggacag cccatagga agtagtaga gggcagga gctgttcca gggcagatg tccccatg cggatctia ggtctggga gggcgtctt gccaaggaca agaatcaga gaggggcagag ctgagcagga gcaagcggcag acgtgtcca gctccatg gggcctggga ggcggcagc cagccatca accatggc tggcagcca aggagcagca gggcccagg gaagaccgt tccagggc cttggggga ggaagcttca tcaatagct ctgtgggg cctgtggcca gtggcaca ggtcagctt catgtgtt tccattggg gtccagag tctgttga cagggtggg gtgctgggt aatcaatg ggttgaat accagatg ggaagagcgt tctgtgtc cttcagga gacacacc cttccgtg cattgcat accittg taatctt algcaagg ctgaagg algacctt ggaagcttca tacaatcacc ttacag MEADLGATGH RPRTELDDED SYPQGGWDTV FLVALLLLGL PANGLMAWLA P	Homo sapiens
595	190484	G Protein-Coupled Receptor Ls190484	ENSMPT2619	GSQARHGAGT RLALLLSLA LSDFLAAA AFQIEIRHG GHWPLGTAAC RFYFLWGS YSSGLFLAA LSLDRCLLAL CPHWYPGHRP VRLPLWVCAG VWVLAFLSV PWLVFPEAV WYDVLVICLD FWDSELSL RMLEVLGGFLP FLLLVCVHL TQATACRTCH RQQPAAACRG FARVARTILS AYVVLRLPYQ LAQLLYLAF WDVYSGYLLW EALVYSDYLI LLNSCLSPFL CLMASADLRT LLRSVLSFA AALCEERPGS FTFTEPOTQL DSEGTLPPEP MAEAQSQMDP VAQPQVNPTL QPRSDPTAQ QLNPTAQPS DPTAQQLNL MAQPQSDSVA QPQADTNVQT PAPAASSVPS PCDEASPTPS SHPTPGALED PATPPASEGE SPSSTPEAA PGAGP	Homo sapiens

596	190595	G Protein-Coupled Receptor SH120	NM_016334	A	Homo sapiens
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597	190595	G Protein-Coupled Receptor SH120	NP_057418.1	P	Homo sapiens
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598	190599	G Protein-Coupled Receptor GPRC5B	NM_016235	A	Homo sapiens

599	190599	G Protein-Coupled Receptor GPCR5B	NP_057319.1	<p>atctacgaca tggtaactgct tgggggctcgg ccccttccac tctggcgcgc aagtccaaga ggggggaagct gaaaggggcc ttctctcca tcaagcctt cctctctgg cctatctggg tggccctggat gaccatgtac cttctgggca atgtcaagct gcagcaggggg gatgctctggg acgaccacc cttggccatc agctggcgg ccaaggcggc ggtcttctgc altctccag ccatccctga gattcacctg acccttgc cagccctggca gggagaacacg cccaactact tggacactg gcagcccaagg atgcgggaga cggccttccga ggaaggacgtg cagctgcgcg gggccctatg gggagacaag gctcttcca tggatgaaca caatgcagct ctcggaacag caggtattcc caacggcgagc ttgggaaaaa gacccagtgcg cagcttggggg aaaaagacca ggcctccgtt tagaagcaac ggtatcagc caactgagat ggcgcgtcg gctaacgtgg gtaaccalccc aactgctccg ccaagtaca cagggaagaca ctttgggtga aagactttaa gttcagaga atcagaatt ctttaccga ttggctccc tggctgtgic tttttgagg gagaatcgg taacagtgc ggaaccaggc cgcctcacag ccaggaatll tggaaatct agccaaggggg atttctgta atgtgaaca ctgacgaact gaaaagctaa caocgactgc ccggccctcc cctggccacac acacagacac gtaataccag accaactca atcccgcaa actaaagcaa agctaatgc aaataglaatt aggtctacatg gtaaatgtgg ctggggaagac tgtttatcc tctgggggga gaaacagaacc aaatcacag ctgggggggc agactgggtg tggttggagg tggggggctc ccactctat caccctccc cagcaagtgc tggacccagc gtagcctctt ggaagagacc gttgcgttga ggacaatgg ggaattggcc accggcttgc ctgggtgggtt gcacattca gggggggctag gaaagttaag gagggtgtgg gtgggattcc aaggtgaaggc ccaactgaat cgtgggggga gctttatagc cagtaagaagt ggaaggggacc tggcaltgic caaaagaagag gccccttggg tgaagagtg accatcacat ttggaaagtg atcaaccact gtctcttca tgggggctctt gcttaagt ctatgggtgag aacacaggcc cggcccttc ccttgaagag ccatagaat attctgggtt gggggcagcag tcccttctc ccctgaltat ctggcctgt tctacact acgggtgtat ctcaaatc tctccaat ttatccct altacttca agagctccaa tggggctcc agctgaagc ccttcgggga ggcaggttgg aaggcaggca ccacggcgagg ttccgcga tgaatcac tagcagggt tcaagggttc ccataggat gcaagaatga ccttcgcg cctcacagc agtgacacct cgggtcctt ccgtgtctat ggtgaaaaat cctggatgga atggatcaca tgaagggttc ttgtgtcti tggagggtgt gggggatatt ttgtttgt tttttgtag gttccatgaa aacagccct tccaagcc attgttctg tcaaggtc catgtctt gaggcaagca ttcttgtt attagcat tgaacatc cggccattca aagcccccatt gttcttgcga ctgttgggc agtaacct clagctaga ttaaaagcag agtttaacc tgaaggcag gaaatgataa atgaagggtgg gttcttgc agalactia atcacatct tgcctttct ataaactac ccataagcct taacctta aaaaaaag aaaaaggta ggtttgggg gcccgggggag gactgaccg ttcataagcc agtagcttg agctgagat gttcaalaa acccttgat atttctcaa aaaaaaaa aaaaaaaa MFVASERKMR AHQVLTFLL FVITSVASEN ASTSGCCGLD LLPQYVSLCD LDAIWGIVVE AVAGAGALIT LLLMLILL VR LPFIKEKEKK SPVGLHFLFL LGTGLFGLT FAFIQEDET ICSVRRFLWG VLFALCFSCSL LSQAWRVRRL VRHGTGPAGW QLVGLALCLM LVQVIAVEW LVTVLRDTR PACAYEPMDF VMALTYDMVL LVVTGLALF TCGKFKRWK LNGAFLLLTA FLSVLIWVAW MTMYLFGNVK LQQGDWNDP TLAITLAAAG WVVFIFHAIP EIHCTLLPAL QENTPNFYDT SQPRMRETA EEDVQLPRAY MENKAFSMD E HNAALRTAGF PNGSLGKRPS GSLGKRPSAP FRSNVYQPT MAVVLNGGTI PTAPPSHTGR HLW gfggctcga gggggggca gggcgccgc ctgagctcg gagaagaacg cagggaacg gctccggag gcaaggctcg ctggaggaa cggctcgc ttgctctac acttgcgcaa atgtctcga gcttactac atagctat ggtatataa aatgaatgc aaggaaacca aataacata atgaaggca gtaaaatga aataaata gaaatcatc agtaaggaa gaccactgg agaggacaga aatgaagca ggtttatc atgtatit cagcaggtct tctgaat taactaaaa taagactgt cictltcag agaactgtc ttitcagiac cagtiacgc aaacaaacca gcccctagac gttactatc tgcattcti gatcaacti gggaaaaat tattaaatat ccttacta ggaatgagaa gaaaaaacac ctgcaaat ttatggat attttgcat ttactagca ttcttgc</p>	P	Homo sapiens
600	190602	G Protein-Coupled Receptor GPCR150	NM_014373	<p>gaaaggggcc ttctctcca tcaagcctt cctctctgg cctatctggg tggccctggat gaccatgtac cttctgggca atgtcaagct gcagcaggggg gatgctctggg acgaccacc cttggccatc agctggcgg ccaaggcggc ggtcttctgc altctccag ccatccctga gattcacctg acccttgc cagccctggca gggagaacacg cccaactact tggacactg gcagcccaagg atgcgggaga cggccttccga ggaaggacgtg cagctgcgcg gggccctatg gggagacaag gctcttcca tggatgaaca caatgcagct ctcggaacag caggtattcc caacggcgagc ttgggaaaaa gacccagtgcg cagcttggggg aaaaagacca ggcctccgtt tagaagcaac ggtatcagc caactgagat ggcgcgtcg gctaacgtgg gtaaccalccc aactgctccg ccaagtaca cagggaagaca ctttgggtga aagactttaa gttcagaga atcagaatt ctttaccga ttggctccc tggctgtgic tttttgagg gagaatcgg taacagtgc ggaaccaggc cgcctcacag ccaggaatll tggaaatct agccaaggggg atttctgta atgtgaaca ctgacgaact gaaaagctaa caocgactgc ccggccctcc cctggccacac acacagacac gtaataccag accaactca atcccgcaa actaaagcaa agctaatgc aaataglaatt aggtctacatg gtaaatgtgg ctggggaagac tgtttatcc tctgggggga gaaacagaacc aaatcacag ctgggggggc agactgggtg tggttggagg tggggggctc ccactctat caccctccc cagcaagtgc tggacccagc gtagcctctt ggaagagacc gttgcgttga ggacaatgg ggaattggcc accggcttgc ctgggtgggtt gcacattca gggggggctag gaaagttaag gagggtgtgg gtgggattcc aaggtgaaggc ccaactgaat cgtgggggga gctttatagc cagtaagaagt ggaaggggacc tggcaltgic caaaagaagag gccccttggg tgaagagtg accatcacat ttggaaagtg atcaaccact gtctcttca tgggggctctt gcttaagt ctatgggtgag aacacaggcc cggcccttc ccttgaagag ccatagaat attctgggtt gggggcagcag tcccttctc ccctgaltat ctggcctgt tctacact acgggtgtat ctcaaatc tctccaat ttatccct altacttca agagctccaa tggggctcc agctgaagc ccttcgggga ggcaggttgg aaggcaggca ccacggcgagg ttccgcga tgaatcac tagcagggt tcaagggttc ccataggat gcaagaatga ccttcgcg cctcacagc agtgacacct cgggtcctt ccgtgtctat ggtgaaaaat cctggatgga atggatcaca tgaagggttc ttgtgtcti tggagggtgt gggggatatt ttgtttgt tttttgtag gttccatgaa aacagccct tccaagcc attgttctg tcaaggtc catgtctt gaggcaagca ttcttgtt attagcat tgaacatc cggccattca aagcccccatt gttcttgcga ctgttgggc agtaacct clagctaga ttaaaagcag agtttaacc tgaaggcag gaaatgataa atgaagggtgg gttcttgc agalactia atcacatct tgcctttct ataaactac ccataagcct taacctta aaaaaaag aaaaaggta ggtttgggg gcccgggggag gactgaccg ttcataagcc agtagcttg agctgagat gttcaalaa acccttgat atttctcaa aaaaaaaa aaaaaaaa MFVASERKMR AHQVLTFLL FVITSVASEN ASTSGCCGLD LLPQYVSLCD LDAIWGIVVE AVAGAGALIT LLLMLILL VR LPFIKEKEKK SPVGLHFLFL LGTGLFGLT FAFIQEDET ICSVRRFLWG VLFALCFSCSL LSQAWRVRRL VRHGTGPAGW QLVGLALCLM LVQVIAVEW LVTVLRDTR PACAYEPMDF VMALTYDMVL LVVTGLALF TCGKFKRWK LNGAFLLLTA FLSVLIWVAW MTMYLFGNVK LQQGDWNDP TLAITLAAAG WVVFIFHAIP EIHCTLLPAL QENTPNFYDT SQPRMRETA EEDVQLPRAY MENKAFSMD E HNAALRTAGF PNGSLGKRPS GSLGKRPSAP FRSNVYQPT MAVVLNGGTI PTAPPSHTGR HLW gfggctcga gggggggca gggcgccgc ctgagctcg gagaagaacg cagggaacg gctccggag gcaaggctcg ctggaggaa cggctcgc ttgctctac acttgcgcaa atgtctcga gcttactac atagctat ggtatataa aatgaatgc aaggaaacca aataacata atgaaggca gtaaaatga aataaata gaaatcatc agtaaggaa gaccactgg agaggacaga aatgaagca ggtttatc atgtatit cagcaggtct tctgaat taactaaaa taagactgt cictltcag agaactgtc ttitcagiac cagtiacgc aaacaaacca gcccctagac gttactatc tgcattcti gatcaacti gggaaaaat tattaaatat ccttacta ggaatgagaa gaaaaaacac ctgcaaat ttatggat attttgcat ttactagca ttcttgc</p>	A	Homo sapiens

601	190602	G Protein- Coupled Receptor GPCR150	NP_055188.1	<p>tttactttt gglaaacatt lccattatatt lgratttcag ggaatttgta ctttaagca ttaggctac taataccac atctgcciat ttactcaaat tatttcttt actiatggct ttggcattt lccagtttc ctgacagctt gtaagatta ttgcttgaat ttictataa caaccaagct ttactttaag tgcataaatt tatittatt cttacagta attttaatt ggatttcagt ccttgcttat gttttgggag accagccat ctaccaagc ctgaaggcac agaatgctta ttctgctac ttgctcttct atgctagcat ttagagttac ttggctgctcat ttttcattgt gattgattta tttagctt lcaaacctg ttgggaagaa gttactat ttgctacagg laccagata acttctata tgaatgaac tatctatat ttcttttt laccacac cagttact ttgagacta aaaaaatt ctatccaag ctatgtct gttttcag laccgttgta ccatgttac laccaggt aatcattgt ttacttaag ttacattcc agcatatatt ggaatgaata ttccctggtt atactttgic aatagtttic ttactgtac agttgattgg ttatattgic acaagctaa ttataagac attgattac ctttgattcc attgtcaac ttgaagctgt gcttactcc acttaaat cctaat cctaatcgt agcaaatiga aaagccata lcaataaga tttgaata ttataata aaagtacag ctgtcataag atcataatt tatgaacaga aagaactcag gacataata aaaaaact gaactaaac aactttgcc ccttgactga tagcatcca gaattgtct ttgaaggcgt tataccaggt attaaatgt gttttatt aaaaacaaaa taattccaag aagttttat agttaticag ggacataata ttacaatat tacttgta ttacacaaa aagtgataag agttacatt ttggttact gattgttgg ttactcaaaa aaactacagg atgcaaacgt ttatgaat ctgagatttc actgaacat ttagattac aactcaaca ttittataa atgtcaaat gtaagcaaga aaaaaaa</p> <p>MTALSSNCS FQYQLRQTNQ PLDVNYLLFL ILGKILLNI LTLGMRKNT CQNFMEYFCI SLAFVDLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGFLHY PVFLTACIDY CLNFSKTTKL SFKCQKLFYF FTVLWISV LAYVLGDPAL YQSLKAQNAV SRHCPFYVSI QSYWLSFFMV MILFAFIC WEEVTLVQA IRITSYMNET ILYFPFSHS SYTVRSKKIF LSKLIVCLS TWLPFVLLQV IIVLLKVQIP AYIEMNIPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP LTPNLEQIE KPISIMIC</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788	<p>ggttccacc catcagacca cagcttcacg ccaggacagc ttggggcagca gtagtcalag gagacatcgt gaggtgagg cttccacc ggccctctct gctccattgg atggcagggct ccgggcagac gtagtccag gttgggtgtgg gtagcaagg ttggagcaaa gaggcccatg ttggagccctcc ccagttgggag agaaagcacag gattgaggggg gttggggccct gtaggagatct cagttgcacc cgaacggct gcatgtcacg gcccatggag aaaggacatt gtcaggttag acgtggggct ccaaaagccc caggctgggg gttccagct cttgactt lccctgagg gctccttga ggccgtgggc accctgggta ttggtgattcc cgtccatgt gtccacctga caagcatttc tccctggag tctgtgct gctccatcac ctgcaaccct tcttaattag caggttggag agtgggggtcc acattgaaat gtagcttgg ttgactcaga attgtccca gctgtgagga attgtaaac cctacatt aaacgcaagc agcttgccatt gaggcttaggg acagaaagaa aaagccggccc ctgagcccca ccttgccccc aggggtggct ctgtgagcca aaagccctgaa ttgggaagagc ctcaaggagga aggcagctct agccatgggc ttggcagctgc aggaagtaaa gtcccccct ccatgtgggc tctccact tctctgctc aaacctgggg ctccagggaga actgtttgta aagactgggg gaacttctgg aagggaggt alattctgt ccatccagg gctccaacac tccagcact gttgccaggac atggccccca cttagggatga ccgtgcccgt gtcgggctcc cctaaacgca gctcttgg gtagggcttag ccggagcagc cctccctggga agcgtgtgt tcaagtccc ttctccag ctccctgct cctcttaag acaggggcaag ggccagggccc gggttccct ccacttga catccagta acttgatca ggccctgaggg cctgggttag ttccgggac ttcccaata aggtttttaa aaattttat actttaaaa ttctgcccgg gccaggtggc tccgctctgt aalctggga ctggggag ccggaggtggg ttggatcact gaggtcaga gttcagact agccctggcca acatgttga cctgcttc ttctaaat acaaaaa ttgccaaggtgt gtggcaggt cctgtaacc cagttactgg gtaggtctga gtagggagat ttgtggacc ttggagggcgg aattgtcagt gagctgagat tgcacattg cactcagc ttgggtgacag agcaaggtct tctaaaaa aataaaaaa aaaaaa acttttat caaaaaa gcaaaagccg cctcgtgac ttatctacc ctactcttctgt ttgtctccatc ttgtgaaagg</p>	A	Homo sapiens

[illegible]

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607	190701	C-C Chemokine Receptor 11	NP_057641.1	MALEQNQSTD YYEENEMNG TYDYSQVELI CIKEDVREFA KVFLPVFLTI VFVIGLAGNS MVVAYAYYK KQRTKTDVYI LNLAVADLLL LFTLPFWAVN AVHGWVLGKI MCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWIFCF VWMAAILLSI PQLVFTYVND NARCIPFPR YLGTSMKALI QMLEICIGFV VPFLMGVCY FITARTLMKM PNKISRPLK VLLTVVIVFI VTQLPYNIVK FCRADIIYS LITSCNMSKR MDIAIQVTES IALFHSCLNP ILVYFMGASF KNYVMKVAKK YGSWRRQRQS VEEFPDSEG PTEPTSTFSI gatttggga gtaagcgc agtggcccg gacggcgagg ggaagagcig cgtgtacat aaggacacag ggactccgag ctggccctga gaaaccttgg acggcgagtg ctggcttac gggctgacat colcaactct gctccaaagc agccgcctgag ctcaactct gcgtcagagg cgttcgtcgc gcgccagagac gcgctlagla cccagttctt gggctctcic ttcagtagct gcttggaaag ctccacgcga cgtcccgcaag gctagccctgg caaanaact gggggtaaac gttatctt aggctctgtc cccagaaca tgaactagag gtaacctgcg altcagatgg ccttcggagc cttcggagc cggccaacac gagtggtaac aggcagcagg cgggggacaa gtagcagaac tctcagctt ggtcccgagc cttcggagc cttcggagc cggccaacac gagtggtaac gcgtcgtcgc agcttcggga cttgggtgg gtagctggggc tggagttggc gggagggcgc ccggccagggac atccccggg cagcggcggg gcaagagagc cgggacacaga gggccgggag cgggagttg tcaagcttgg gtagtgggtt gttggcgcc tgggggtggc ggggcaacctt cttgttctt acctgtagaa gtagcagcag ggtcggcgca agtctctat caacctctc gtcaccacc tggcgctgac ggaatticag ttgtgtcica cccggcctt cggggcggtt gtagaacgctc tgaattcaa atggcccttc ggcaaggcca tggtagagat cgtgtccatg gtagcgtcca tgaacatgta cggccagcggtt ttctctca ctggccatgag tgtgacggc taccattcgg tggcctcggc tctgaagagc caccggaccc gaggacacggc cggggcgag tgcctggggc ggaagcctggg gtagacagctgc tggcttcggg ccagggcgtt gttgtgttgg atctggggctt tggccggct ggcctcgtcgc ccaggttcca ttctccac caggttcaag gtagtggggc gtagtgggtt cctgtgttgg ttccgggaca agtgtgtggc ccgcgacagg cagttcggc tggggctccta ccacitgcag aagggttctt tgggtcttgg gctggcgctg ggcatcata tctgtgtcta cctgtcgtc gttgggttca tggcggttca tggcggttca cggcggttca gtagaacgctc tgaattcaa gtagcgggca ggaagggcca ccggagggcag cggccgggaga ctgtcgaag tcaacatc agtggacatc gttgtctt ccttctct gttgtgtcgc ccacacagg cgtctacac cttggagcalt ctacatagt tcaacggcgtt gcccitcagc caggagat tctgttcca ggtatagcgt ttccctgttga gctgtgtt gctcagcactc aacagcttggc tcaacccgt cctctactgc ctgcgtggcc gtaggttccg caaggcgctc aagagcgctc tgggtgtcct cgggtcctc tggatcaca gcatggcc cttaccggc actaacagg cggagcagca ggaatcagggc ctgagggcc cggcgccgc ccacggcgcc	P	Homo sapiens
608	190705	G Protein- Coupled Receptor SALPR	NM_016568	gatttggga gtaagcgc agtggcccg gacggcgagg ggaagagcig cgtgtacat aaggacacag ggactccgag ctggccctga gaaaccttgg acggcgagtg ctggcttac gggctgacat colcaactct gctccaaagc agccgcctgag ctcaactct gcgtcagagg cgttcgtcgc gcgccagagac gcgctlagla cccagttctt gggctctcic ttcagtagct gcttggaaag ctccacgcga cgtcccgcaag gctagccctgg caaanaact gggggtaaac gttatctt aggctctgtc cccagaaca tgaactagag gtaacctgcg altcagatgg ccttcggagc cttcggagc cggccaacac gagtggtaac aggcagcagg cgggggacaa gtagcagaac tctcagctt ggtcccgagc cttcggagc cttcggagc cggccaacac gagtggtaac gcgtcgtcgc agcttcggga cttgggtgg gtagctggggc tggagttggc gggagggcgc ccggccagggac atccccggg cagcggcggg gcaagagagc cgggacacaga gggccgggag cgggagttg tcaagcttgg gtagtgggtt gttggcgcc tgggggtggc ggggcaacctt cttgttctt acctgtagaa gtagcagcag ggtcggcgca agtctctat caacctctc gtcaccacc tggcgctgac ggaatticag ttgtgtcica cccggcctt cggggcggtt gtagaacgctc tgaattcaa atggcccttc ggcaaggcca tggtagagat cgtgtccatg gtagcgtcca tgaacatgta cggccagcggtt ttctctca ctggccatgag tgtgacggc taccattcgg tggcctcggc tctgaagagc caccggaccc gaggacacggc cggggcgag tgcctggggc ggaagcctggg gtagacagctgc tggcttcggg ccagggcgtt gttgtgttgg atctggggctt tggccggct ggcctcgtcgc ccaggttcca ttctccac caggttcaag gtagtggggc gtagtgggtt cctgtgttgg ttccgggaca agtgtgtggc ccgcgacagg cagttcggc tggggctccta ccacitgcag aagggttctt tgggtcttgg gctggcgctg ggcatcata tctgtgtcta cctgtcgtc gttgggttca tggcggttca tggcggttca cggcggttca gtagaacgctc tgaattcaa gtagcgggca ggaagggcca ccggagggcag cggccgggaga ctgtcgaag tcaacatc agtggacatc gttgtctt ccttctct gttgtgtcgc ccacacagg cgtctacac cttggagcalt ctacatagt tcaacggcgtt gcccitcagc caggagat tctgttcca ggtatagcgt ttccctgttga gctgtgtt gctcagcactc aacagcttggc tcaacccgt cctctactgc ctgcgtggcc gtaggttccg caaggcgctc aagagcgctc tgggtgtcct cgggtcctc tggatcaca gcatggcc cttaccggc actaacagg cggagcagca ggaatcagggc ctgagggcc cggcgccgc ccacggcgcc	A	Homo sapiens

609	190705	G Protein- Coupled Receptor SALPR	NP_057652.1	<p>gggagggccgg acctgctcta ctaccacct gggcgctgctgg tctacagcgg gggggcgctac gacctgctgc ccagcagctc tgcctactiga cgcagggcc cggcccgctgc gggcaaggctg ggccttcocg gggcggtaaag aggtgaaagg atgaaggagg gctggggg</p> <p>MQMADAAITA TMNKAAGGDK LAELFSLVPD LLEAANTSGN ASLQLPDLWW ELGLELPGDA PPGHPGSGG AESADTEARV RILISVVYVW VICALGLAGNL LVLYLMSMQ GWRKSSINLF VTNLALTDQ FVLTLFWAV ENALDFKWPFF GKAMCKIVSM VTSMNMYASV FFLTAMSVTR YHVSASALKS HRTRGHGRGD CCGRSLGDS CFSAKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRRAA GTKGGAAVAG GRPTGASARR LSKVTKSVTI VLSFFLCWL PNQALTTWSI LIKFNAPFS QEYFLCQVYA FPPSVCLAHNSCLNPVLYC LVRREFRKAL KSLLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYPP GVVYSGGRY DLLPSSAY</p>	P	Homo sapiens
610	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NM_018970	<p>ggcacagaga ttactgct gctcaagat cagattatta ctgtagagaa gattttatt ttgtttca ttaacagatt attataaagc aaaagacatg cagaaaaaga agcagacgtt ttacattggg aattaalga agcgctgctg ctagtttgg gtagggagaaac tgggaagttg ttgtaaaa ttalalca cctccacaaa caaaactct cggaaatggg aaaaataagaa aatgcatgat tctagaggca ttcctaagca cccacgtgic aggttttgg gttctgttgg tatalcoga cgtttggac tggtagggc ttactgagag ctccattct ggaaagcctt acaagactga ggaalacag actcgaalc accgggaagc gttcttgc agcacagaag caatctct cccalctc gcatatctg alggcaaac aaggggaaga aagagggaag calgactlga gatcatlga gttctttg tggattat tttagtaaa algtatgat ctatcttc ctgttcta taltalga altagacttg acggaggctg taltctalc ctccatcat ctatggcga ctatggcat gcatctgaca acatttga aatctctc ccttaacag ccttctgaa actgactcc ttgggttca taatggaggt cagcgtgggt ggcaacctcc tgaatctcat ttgtctag tttagagaa ccttgcag agcaactac tactctgt tggactttg ctgtcagat altctcagat ctggcaattg ttccattt gtttcaact ctgtcaaaa tggctaac tggacttalg ggaactlga ttgcaagtg attgcttgc tgggggttt gttctgttc cacactlgt lcalgctct ctgcatcgt gtcacagat actagctat cggccatcac cgtcttata caaaggaggt gacctttgg acgttctg acgtgctg tgggtgtgg actctgtc tggccatggc attccccc gtttagacg tgggacacta ctacttatt agggagggaag alcaatgac ctccaacac cgctcttca gggctaatga ttcttagga ttatgtcgt ttctgtct catctccta gccacacagc ttgttacct caagtgtata ttttctgc acgatcgaag aaaaatgaag ccatgtccagt ttgtacagc agtcaagcag aactggacti ttatgttc tggagccagt ggccaggcag ctgccaatg gctagcagga ttggagggg gttccacacc accaccttg ctgggcatca ggcaaaatgc aaacaccaca ggcaagaaga ggctatgtgt cttagacag ttcaaaatgg agaaaatgaat cagcagaatg ttctatata tgaatttct gtttcaacc ttgtggggcc cctaccgtgt ggcctgttat tggagagttt ttgcaaggag gctgtatga ccaggggggt ttlaacagc tgcgtctgg alpagtttg cccaagcag aataatct ttgtctga ttctcaaa cabgggagc aggcgctgt tcaagacaac cctcttacc tgcagaaaal ccaagttacc aaggggaacct tactgtgta tatgaggag catctgaaa tcttagct ttggaact aaccttct cttagagcaat tggggcccat agccatatt tgaagaagaaa ttcaagaatg gaatcagcag ttlaaggat ttgggcaaca tctgcagtc ttggcaatag ttacatata altcatattt aaatctcaga gtatccctg tgaactgcag caaaggttg taataagaa ggggactgaac cactgccta agtttcta ttgtgtcaaa aactagataa tgaagtagc aggtgtatag taltcag'tgt aatgtctg tatgtacta cataagaaa aacatcaaaa acaatlagc attggacac taataaatt aagttagcat gaggtaaatg tgtgtataaa aactaattt agaaagttga agactttaaa acatttata ctactagt ttgcaaga claaaatt tggggactta aagtiactga altccataaa gacgtgcca tgaattatg gaatalcaca cttaaaaac cgctctgtaa gttctggggga gcatlccaaa gcatatattt ggttcaattt aggtttat taatacatg ctattctaa</p>	A	Homo sapiens

611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>ataccacatt cctcatctac tagtaagatt gctagcattg aactgtaata tgggtttt gttgattgg taataagttt ttcaatcca ttatattt acaaatgcta gatattggc tgggaggcaa cattaaaggt accagccigt cacaacigag cagltctaat aalgcagaat aaatacagt tgccttaag ggtatctag tatccticat ctatttagc actggagcaa atagccaagg gaaatacaat cagtaactgg tcatggcat gcatcaaaa gtcalgaa gactattat tactttcc ttitttic acatggttg aaactaaag tgcacacac tgaataatg agattttt ctacggctg ctaccttc taactgic taagaaagcag gcaagttagt tatgttata tttaagica gctgcaagg ggaaccaca gactatgat gacatctgc acaattgig aagcallat tctacigaa gcaagicti gtttalcit tctgcacat caggtattg gtaattaaa ttattcagt tttaactgt gaaagctat attatgatt cttgatttt agaaatacal tagagictgt gactatcatt cttaagata cagatgctg aactcaata taagatgca ttgccaata ttacctgg tagcctgta atttttga aataagttt acattttg cacatacaa cgtttttt aattgggag gcaagacaa actaggaga ctactttat tatgtttg cttttgatt ctgtagcta ctatcca gactggaaat gtagaatga taatcaat aalgcigala aacigacala atattatcig taaaagcatt attttagt ttatataat calccctcia ttattctaa algccagtag tatttaga tggtaaccig cttagtaat tggctcagaa tttaataa aacalcacac ttatattgg agcatagtag catagaaatt tggggctta aatatacaac ttgtaagaag aatggtttac actaacatta tgcataaact agaaaagtt attattttg ttgctttct gttgtttgt ttatggttg gttttga agtttttt ttitttgta ttgataat aagatagga atcaataac acagaattcc atattgctat agtacttgc taagaagt atcaataaa ataggaaaa taactcaatg aaatgttca alggttaaa aaaaaaaa aaaa MANYSHAADN ILQNLPLTA FLKLTSLGFI IGVSVVGNLL ISILLVKDKT LHRAPYYFLL DLCCSDILRS AICPFVFNK VKNGSTWYTG TLTKVIAFL GVLSCFHTAF MLFCISVTRY LAIAHHRFYT KRLFTWTCLA VICMVWTLVS AMAFPPVDV GTYSFIREED QCTFQHRFR ANDSLGFMLL LALILLATQL VYLKLIFFVH DRRKMKPVQF VAAVSQNWTF HGPASGQAA ANWLAFGRG PTPPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TFLFLTWGP YLVACYWRVF ARGPVVPGGF LTAAVWMSFA QAGINPFVCI FSNRELRRCF STLLYCRKS RLPREPYCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggtagtgg agcttcttc caagtgccc atcggtccc actgggggggt gctgtccaa gcttgccgt acagaaggc cgatccgac ccccttggt actcttact ggcacaccag taccgaaaa gctgcaaggag gattcigaac aggtccctgc acagagctc calccatcc tctggctca caggcactc tcacagccag aacattctgc cgggtgtcga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRROA PALFTLNLTC GNLLCTVNM PLTAGVVAR ROPAGDRLCR LAFLDTFLA ANSMLSMAAL SIDRWAVVF PLSYRAKMLR RDAALMVAYT WLHALTFPA ALALSWLGFH QLYASCTLCS RRPDERLRF VFTGAFHALS FLSFVVLCC TYLKVARFHC KRIDVITMQT LVLVLDLHPS VRERCLEEQ RRRQRA TKKI STFIFTFLVC FAPYVITRLV ELFTVPIGS HWGVLSKCLA YSKAASDPFV YSLLRHQYRK SCKEILNRLL HRRSIHSSGL TGDSSHQNLL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>atggccaaca ctaccgaga gcttagagag gtgagcggcg ctgtgccc accgtccga tcaagctatg tgaagcigt actgtggga ctgattagt gcgttagcct ggcgggtaac gcatctgt cctgtcgtt gctcaaggag cgtgcctgc acaaggctc ttacttct ctgtctgacc tgtgcttgc cgaatggcata cgtctgccc tctgtctcc cttgtctgc gctctgtgc ggcaggctc ttatggacc ttatggacc tcatggcac tcatgtgcaa gattggcc ttatggcc tgccttttg ctccatgc gcttcalgc tgttctcat cagcgtacc cgtatagc ccatgcca ccaccgttc taccgcaagc gcalgacact ctggacatgc ggcgctgca tctgcatggc ctggaccctg tctgtggcca tggcctccc accgtctt gacgtgggca cctacaagt tattcggag gaggaccagt gcatcttga gcatgctac ttcaaggcca atgacagct gggcttcatg ctatgtgg cgtgtctcat</p>	P	Homo sapiens
614	190741	Streb3	NM_018969		A	Homo sapiens

615	190741	Sreb3	NP_061842.1	<p> ggcagctacc catgctgct acggcgaagt gctctcttc gaggatcgtc accgcaagat gaaagccagtg cagatggctg cagccatcag ccagaaactgg aatltccalg gtcocggggc caccggccag gctcgtgcca acggatcgc cggctttggc cgtggggcca tgcaccaac cctgctgggt atccggcaga atgggcatgc agccagccgg cggctactgg gcatggacga ggfcaagggt gaaaagcagc tggcccgcat gtlacgag atcacatgc tcttctgt cctcgtgca cctacatg tggctgcta cggcgagtg ttggaag cctgctgt gcccacgc taccggcca cgtcgttg gatgactc gcccaggctg ccgtcaacc aattctgt tctgtcta acaaggacct caaggatgc ctagggac acgccccg cggggcaca ggaaggccc cggctccag agaaccctac tggatcgt ga MANITGEPEE VSGALSPSA SAYVKLVLLG LIMCVSLAGN AILSLVLKE RALHKAPYYF LLDLCLADGI RSAVCFPV ASVRHGSSWT FSALSCKIVA FMAVLCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AA VICMAWTL SVAMAFPPVF DVGTYKFIREDQCFEHRYFKANDTLGFM LMLAVLMAAT HAVYGKLLF EYRHRKMKPV QMVPASQNW TFHGPATGQ AAANWIAGFG RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQLGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVVMSF AQAAVNPVIVC FLNKNLKKK LRTHAPCWGT GGAPAPREPY CVM </p>	P	Homo sapiens
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	<p> gagctctgc cacagactag agcagggaag ggggggaaag cggcgataga ggttagcagg aatgttaat latcaggagc aggaaacaga ctagggcat gccaggtcc acacaggccc tcataggccc aggttcca gtagggagga aacaggagc tggacttc tctctttt cctccctgc tctagctc aggtcactg cgtctgagat gaattcca cgttttag tggcactgt ccctgggcat ggttaagcc tctagacc ccttgcac aaacaccca aacttctt tgaataat atcatacaa atgtcttt cacatgatt cttcattgc atcagccac tcttggag cagacttacc tgaataatt aagcaagaaa acagggcttag gggaagaaag taacttccc agtcacacg ctagtgagca gcaggtctgg gactccggcag cctccgctt tctctctt ggacacccat gctgattccc tgcctatg ccacttcca gggccctgg ttggggccc aagggaacac ttittgcaga ggaggaggc cctgcactg ttgggaacag aggcagctct agtttggct cgtcactc tggggacagg aaactcca ctctctctt ggggtggagg cttggggctg cctccatag cggggtaact cctctct cctctctt cgtccattt gaggccctt tacaggcggg cgcaltgaca tatccctgg cattcaggct gttgctggc cgtcccccac taccaccaat ctggaccaac aggaaagggt tgggtgtcc ttccacac cctccctg aggtgtgggc gtagggcagg gctcaccaga gggccagag aagcacttaa ttctacagc tcttcttag agcctcagt gggctctg agcttggcag acacttctt accctctt tcaaccac caatcttga tggccctg tggccact caatctt gctctccac ccacttct cggggccaat gcttccggag gcaggtgtgt gattctcga tgccttcca altccatg ctagaggctca tggttgccc gggctatggg cttgggggg ccatggctt gctgggaaat ttggcggctg tgggtgact gtagtaact gcccggagg cccctggccc accitcagac accctgct tcaactgg cttggcggac cttgggactgg cactactt cccctttgg gcaagccgagt cggcacagg ctttactgg ccttcggag gttgctctt caagtggtt ctgacggcca cgttcccaa cgtctatggc agcatcttc tcatcagc gctgaggtt gctgctact ggggtgtgtggc calggctggc gggccaggcca cccactct actctctgg gcccgaag ccacctggc agttgtgggc gggcctggccc tgggtacgg gcccacagg gcttccgggg tggagggtt gttgtgtgt gttgctttt gctgctggc ttccacag aggttactgg tggggggccta cagctggcag agggtgtgt tgggtttt gttgctggc gctgctgca ccaacagcta cctgctgtgg cttggcttcc tgcaggggc gcaacgggc cggcagggaca gcaagggtctt gggccgctct gttccgcatc tgggtgtgtt cttctctc tgcgtgtt ccaacagt ggtcacttc tgggtgtgtc tgggtgagtt tgaactgtt ccttggaca gacttcta tactatcag acgtatgt tccctgtac tacttctg gcacacagc atagctgctt caacctgtt cttgtactgt tccgtgggc gggggccggg caggctctgg caggggacctt cagggtgtct cgggtgggc tgggtggcag ggggtggcag aggtgtggcctt </p>	A	Unidentified

Accession	Gene	Protein	Sequence	Species
617	190742	G Protein-Coupled Receptor 359 H7TBA62	<p>ENSP00000201</p> <p>MPPLNTSASP PTFFWANASG GSVLSADDAP MPVKFLALRL MVALAYGLVG</p> <p>AIGLLGNLAV LWVLSNCARR APGPSDDTFV FNLAALADLGL ALTLPFWAAE</p> <p>SALDFHWPF GALKMVLTA TVLNVAASIF LITALSVARY WVVAMAAGPG</p> <p>THLSLFWARI ATLA VVAAAA LVTVPTAVFG VEVEGCVGRL CLRFPFSRYV</p> <p>LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRRRQD SRVVARSVRI</p> <p>LVASFELCVF PNHVVLWGV LVKFDLVPWN SFYTIQITVY FPVTTCLAHS</p> <p>NSCLNPVLYC LLRREPRQAL AGTFRDLRLR LWPQGGGWVQ QVALKQ</p> <p>atgtacaagg acgtgatcga gtccacttga gactatttc ttctctga ccgcagagg ccaltggagca tcalltctga</p> <p>gtccctggcc alacttggca tctgtgtcac aattctgta ctcttagcat ttcttctc calgcaaaag atccaaact gcagccagtg</p> <p>gaaltgtctt cccaccagc tctcttct cctgagtgic ctggggctct tggactgc ttggcttc atalcagc tcaalcaaca</p> <p>aactggccc gtacgtact ttctttgg ggttctctt gtctctgt tctatgt tctatgtt ccttccat gtctccaalc tagtgaagct</p> <p>ggttcggggg ttgttctct tctctggac gacaattctg tgcattgta ttgtttgcaa tctgttgc aaattattgt ccactgtgta</p> <p>ttgtactctc atcaltgaca gtagttagat gttgttgaat atgacacact ggcacttcaa tgttgacti gttgtactcc ttgtctatgt</p> <p>cccttctctg atggccctca catcttctgt cttccaaagcc accttctgtg gcccgttga gaacltgaaag cagcatggaa</p> <p>ggctcatctt tatcactct cttcttcca tcatcctg ttgtgtgtgtgt atcttccatg tctgtgagtg caaccctgag ttccagcgag</p> <p>agccccaagt ttgacagaccgt gtctctgta ttgtcttgg taccaaagca ttgggtttcc ttgtctgta catgtctct</p> <p>gagcttccaa gttgaggaacc agagagctct cagagcccca gacagttagt gactgttagt gtagttaga gtagttaga ttacttcat</p> <p>atgttactcc catltagccg cagactgtgt atccacaca aggtgtgttt atcccagg ctactaag cccacagca</p>	Homo sapiens
618	190743	G Protein-Coupled Receptor GPRC5D	<p>NM_018654</p>	Homo sapiens

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gagcaggag gagataaa MYKDCIESTG DYFLLCDAEG PWGIIESLA ILGIVVTILL LLAFLLMRK IQDCSQWNVL PTQLLLSV LGLFGLAF AF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTIL CIAIGCSLLQ IIHATEYVTL IMTRGMFVN MTPCQLNVDF VLLVYVFLF MALTFVSKA TFCGPCENWK QHGRLLFTV LFSIIIWVW ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPQTQECF IPQAKLSPQQ DAGGV	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	cggcagggtg gggaaotccc cgaagagtg ccttggtcac agcaccttg aagacagcca ttggccatgg gggaccaacc agagccgtgg cttggagacca gggatggccat ccaaaagcc ttggtgatgt ggcctgggaat ggcctcttc cttgtccag gggctggggc ccaaggccat gtocaccccg gctgagacca agggctcaac cccctgtact acaaccttg ttgaccgtct ggggcgtggg gcatgtctt ggaaggccgtg gctggggccgg gcatgtcac cagcttggtg ctacacatca tcttggtggc cagctccccc ttgtgcagg acaccaagaa acggagccgtg cttggggaccc aggtattctt cctctgggg accctgggccc tctctgtctt cgtgttgccc ttgtgtgtga agcccgactt ctacactgt ggcctctggc gcttctctt ttgggtgtctg ttggccatct gtctcttg ttggcgggt cagcttttg cctcaactt cctggcccg aagaaccacg gggccggggg cttgggtgac ttactgtg cttctgtct gaccttgta gaggctalca tcaalacaga gtggcgtgac atcacccgtg ttgggggacg tggcggggg gggccctcagg gcaacagcag cgcaggctgg gcccgtggcc cccctgtg cgttggccaac atggacttg tcattggcact catctacgtc atgtgtgtg ttgtgggtg cttctgggtg gcttggggc cctgtgtgg cgttgcacag cgttggcgtga agcatgggtt cttgtgtc ctacacacag caactcctgt tggccatgg gtgtgtgtga tctgtatga tactacggc aacaagcagc acaacgtcc cacttgggt gacccacagc ttggccatgg ccttgcgcc aatgcttggg ccttctctt ctctacgtc atccccagg tctccaggt gaccaagtc agcccagagc aaagctaccca ggggggacatg taccacccc gggggcgtgg ctatgagacc atcttgaaag agcagaaggg ttagagcatg ttctgtggaga acaaggcctt ttccatggat gggccgggtg cagctaaag gcccgtgtca ccatlacagc ggttacaatgg gcaagctgtg accagtgtgt accagccac ttgatggcc cttgatgcaca aagtctcgtc ggaaggagct tacgacatca tcttccacg gggccacggcc aacaagcagg ttgatggcag tgcacactcg accctgggg ctaagacat gtaactggcc cagagccacc agggcggccac accgcccga gacggcaaga actctcaggt cttagaaac cctacgtgt gggactgtgt cagcgggtgg gaggagaggc ggggcgattt ggggaggggc ctgaggacct gggccggggc aaggagctct ctaggtctt cctcccttg gcaaggcagc aacatgtcc ccagatcgg aaggccctcc ctcttgcca gttgtgggt ggggtgtcatg ggtgtcccca cccactctc agtgtgtg ggtcggagg gccaaccca gctcttggc aggaatcact ogggcggtcac actccagcca aalagtgtc tcgggggtgt ggtcggggcag ggcctatgt tcttgaggaga ttccgtcaac ctcaagagac ttccagggcg ctacggccig gatctgtc cttgtgagg acaagggtt cctaataat acattctgc ttatataa aaaaaaaa aaaa	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	MGTOPEPLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFLV ILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFAV VKPDFSTCAS RRFLFGVLA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTLVEV IINTEWLIT LVRGSGEGGP QGNSSAGWAV ASPCAVANMD FVMALIYVML LLLGAFGLAW PALCGRYKRW RKHG VFVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVTP EVSVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQTEMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSQAS HQAAITPKDG KNSQVFRNPY VWD	P	Homo sapiens

622	190745	G Protein-Coupled Receptor LGR7	NM_021634		<p>atgacatcgt gttctgctt ctctacalc taaatttg gaaaataatt ttctatggg ggtggacagg atgtcaagtg ctcccttgcc</p> <p>tattccctt gttggacac cacaagtgcc ttgctcagc tccgcatg taacgggtg gacgactg ggaatcaggc</p> <p>cgalgaggac aacgtggag acaacaatgg atggccatg caattigaca aatattg cagttactac aaaaatgactt</p> <p>ccaataacc ttgtgggca gaaacacctg aatgtttgt cgggtcttg ccagttgcaat gttttgcca aggtctggag ctgactg</p> <p>atgaaacca ttacgact gttccatgg ttctcaaa tggtagtga atgtcact agtggactt aataagaaag ctctcctg</p> <p>attgctcaa gaattatcat gatctcaga agcttacct gcaaaacaat aagaataat ccatccat ctatgcttc agaggaciga</p> <p>atagccttac taaactgat ctacgicala acagaataac ctccctgaag ccgggtgtt ttgaagatct tcaagacta gaalggtcga</p> <p>taattgaaga taatcacctc agtctgaatt cccaccac atttttga cttaatttc ttattctt agtctgag aataacgtcc</p> <p>tcaccgttt acctgataa ccctctgic aacacatgcc aagactatc tggctggacc ttgaaggcaa ccalatcat aattaaana</p> <p>atttgactt tattctgc agtaattaa ctgttttga tggaggaaa aacaataa atcactaaa tgaataact ttgcacctc</p> <p>tccagaact ggaatgatt gatttgaaa gtaataagat tgaatactt ccaccgcta tattcaaggaa ccgaaaggag ctgtcacaat</p> <p>tgaatcttc ctataatca atccagaana ttcaagcaaa ccaattgat tatctgta aactcaagc tctcagccia gaaaggatg</p> <p>aaatttcaaa tatccaaca aggatgtta gacctctat gaactictt cactatctt ttaagaaatt ccagttactt gggtagcac</p> <p>cacatgttc cagctgaaa ccaacacatg atggaaatt atctctgag aatctctgg caagcattat tcaagagata ttgtctggg</p> <p>ttgtatcgc agtacctgc ttggaaaaca ttgttgat ttgcagca cctatata ggtctgagaa caagctgat gccatgcaa</p> <p>tcatctct ctgctgccc gactgctaa tgggaataa ttatctg atcggtgggtc ttgacctaaa gttctggtga gaatacaata</p> <p>agcatgcgca gctgltgag gtagtactc atgtcagct tglaggatct tggccatc tggccacaga agtactagtt ttactgtaa</p> <p>cattctgac atgggaaaa tacaatgca ttgtctatc tttagat gtagagactg gaaatgca aacaatcag aactaataa gttctgaltc</p> <p>tcaattgat tactgttt atagtgtt tcatccat gagaataag gaatttca aaactacta tggcacaat ggaatgact</p> <p>tcccttca ttcaagat acagaagata tggagccca gattattca gttgcaatt ttctggtat taattggcc gcatlata</p> <p>tcatagtt ttctatgga agcatgttt atagtgtca tcaaggtcc ataacagcaa ctgaataagc gaataagtt aaaaagaga</p> <p>tgatcttgc caaacgttt ttctatag tattactga tgcattatg tggatacca ttittgat gaaatttct tcatgcttc</p> <p>aggtagaat accagttacc alaactctt gggtagtat ttattctg ccaataaca gttcttga cccaatttc tatactga</p> <p>ccacaagcc attaaagaa algaltcat ggttttgga taactacaga caaagaaaat ctatggacag caaaggtag</p> <p>aaaacata g cccatcat calctgggtg gaaatgtggc cactgacaga galgccacct gaggtaatga agccggacct</p> <p>tttccatc cccgtgaaa tgcactgat ttccaata acgagactca attctatc alga</p> <p>MTSGSVFFY LIFGKYFSG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV</p> <p>DDCGNQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV</p> <p>PVQCLCQGLE LDCDETLRA VPSVSSNVT MSLQWNLRK LPDFCFKNYH</p> <p>DLQKLYLQNN KITSISYAF RGLNSLTLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL</p> <p>SRISPPTFYG LNSLLVLM NNVLTRLPDK PLCQHMPLRH WLDLEGNHII</p> <p>NLRNLTFISC SNLTVL VMRK NKINHLNENT FAPLQKLDL DLGSNKIENL</p> <p>PPLIFKDLKE LSQNLNSYNP IQKIQAQNF YLVLKLSLSL EGIEISNIQQ RMFRPLMNL</p> <p>HIYFKKFQYC GYAPHVRCK PNTDGISSLE NLLASIQRV FVWVSAVTC</p> <p>FGNIFVICMR PYRSENKLY AMSIISLCCA DCLMGIYLFV IGGFDLKFGR</p> <p>EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLTFLTLEK YICIVYFRC</p> <p>VRPGKCRIT VLIWITGF IVAFPLSNK EFFKNYYGTN GVCFPLHSED TESIGAQIYS</p> <p>VAIFLGINLA AFIIIVFSYG SMFYSVHQA ITATEIRNQV KKEMILAKRF FFIVFTDALC</p> <p>WPIFVVKFL SLQVEIPGT ITSWVVFIL PINSALNPIL YLTTRPFKE MIHFRWYNR</p> <p>QRKSMDSKGQ KTYAPSFIV EMWPLQEMPP ELMKPDLTFTY PCMSLSISQS TRLSYS</p>	A	Homo sapiens
623	190745	G Protein-Coupled Receptor LGR7	NP_067647.1		<p>atgacatcgt gttctgctt ctctacalc taaatttg gaaaataatt ttctatggg ggtggacagg atgtcaagtg ctcccttgcc</p> <p>tattccctt gttggacac cacaagtgcc ttgctcagc tccgcatg taacgggtg gacgactg ggaatcaggc</p> <p>cgalgaggac aacgtggag acaacaatgg atggccatg caattigaca aatattg cagttactac aaaaatgactt</p> <p>ccaataacc ttgtgggca gaaacacctg aatgtttgt cgggtcttg ccagttgcaat gttttgcca aggtctggag ctgactg</p> <p>atgaaacca ttacgact gttccatgg ttctcaaa tggtagtga atgtcact agtggactt aataagaaag ctctcctg</p> <p>attgctcaa gaattatcat gatctcaga agcttacct gcaaaacaat aagaataat ccatccat ctatgcttc agaggaciga</p> <p>atagccttac taaactgat ctacgicala acagaataac ctccctgaag ccgggtgtt ttgaagatct tcaagacta gaalggtcga</p> <p>taattgaaga taatcacctc agtctgaatt cccaccac atttttga cttaatttc ttattctt agtctgag aataacgtcc</p> <p>tcaccgttt acctgataa ccctctgic aacacatgcc aagactatc tggctggacc ttgaaggcaa ccalatcat aattaaana</p> <p>atttgactt tattctgc agtaattaa ctgttttga tggaggaaa aacaataa atcactaaa tgaataact ttgcacctc</p> <p>tccagaact ggaatgatt gatttgaaa gtaataagat tgaatactt ccaccgcta tattcaaggaa ccgaaaggag ctgtcacaat</p> <p>tgaatcttc ctataatca atccagaana ttcaagcaaa ccaattgat tatctgta aactcaagc tctcagccia gaaaggatg</p> <p>aaatttcaaa tatccaaca aggatgtta gacctctat gaactictt cactatctt ttaagaaatt ccagttactt gggtagcac</p> <p>cacatgttc cagctgaaa ccaacacatg atggaaatt atctctgag aatctctgg caagcattat tcaagagata ttgtctggg</p> <p>ttgtatcgc agtacctgc ttggaaaaca ttgttgat ttgcagca cctatata ggtctgagaa caagctgat gccatgcaa</p> <p>tcatctct ctgctgccc gactgctaa tgggaataa ttatctg atcggtgggtc ttgacctaaa gttctggtga gaatacaata</p> <p>agcatgcgca gctgltgag gtagtactc atgtcagct tglaggatct tggccatc tggccacaga agtactagtt ttactgtaa</p> <p>cattctgac atgggaaaa tacaatgca ttgtctatc tttagat gtagagactg gaaatgca aacaatcag aactaataa gttctgaltc</p> <p>tcaattgat tactgttt atagtgtt tcatccat gagaataag gaatttca aaactacta tggcacaat ggaatgact</p> <p>tcccttca ttcaagat acagaagata tggagccca gattattca gttgcaatt ttctggtat taattggcc gcatlata</p> <p>tcatagtt ttctatgga agcatgttt atagtgtca tcaaggtcc ataacagcaa ctgaataagc gaataagtt aaaaagaga</p> <p>tgatcttgc caaacgttt ttctatag tattactga tgcattatg tggatacca ttittgat gaaatttct tcatgcttc</p> <p>aggtagaat accagttacc alaactctt gggtagtat ttattctg ccaataaca gttcttga cccaatttc tatactga</p> <p>ccacaagcc attaaagaa algaltcat ggttttgga taactacaga caaagaaaat ctatggacag caaaggtag</p> <p>aaaacata g cccatcat calctgggtg gaaatgtggc cactgacaga galgccacct gaggtaatga agccggacct</p> <p>tttccatc cccgtgaaa tgcactgat ttccaata acgagactca attctatc alga</p> <p>MTSGSVFFY LIFGKYFSG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV</p> <p>DDCGNQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV</p> <p>PVQCLCQGLE LDCDETLRA VPSVSSNVT MSLQWNLRK LPDFCFKNYH</p> <p>DLQKLYLQNN KITSISYAF RGLNSLTLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL</p> <p>SRISPPTFYG LNSLLVLM NNVLTRLPDK PLCQHMPLRH WLDLEGNHII</p> <p>NLRNLTFISC SNLTVL VMRK NKINHLNENT FAPLQKLDL DLGSNKIENL</p> <p>PPLIFKDLKE LSQNLNSYNP IQKIQAQNF YLVLKLSLSL EGIEISNIQQ RMFRPLMNL</p> <p>HIYFKKFQYC GYAPHVRCK PNTDGISSLE NLLASIQRV FVWVSAVTC</p> <p>FGNIFVICMR PYRSENKLY AMSIISLCCA DCLMGIYLFV IGGFDLKFGR</p> <p>EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLTFLTLEK YICIVYFRC</p> <p>VRPGKCRIT VLIWITGF IVAFPLSNK EFFKNYYGTN GVCFPLHSED TESIGAQIYS</p> <p>VAIFLGINLA AFIIIVFSYG SMFYSVHQA ITATEIRNQV KKEMILAKRF FFIVFTDALC</p> <p>WPIFVVKFL SLQVEIPGT ITSWVVFIL PINSALNPIL YLTTRPFKE MIHFRWYNR</p> <p>QRKSMDSKGQ KTYAPSFIV EMWPLQEMPP ELMKPDLTFTY PCMSLSISQS TRLSYS</p>	P	Homo sapiens

624	190748	GPCR Ls190748	AX147756	A	Homo sapiens	<p>gctcgggggt ggggggagct ggggacaggg tcaatggct gaaagaaagt ctcacatccc cctagctctt gctgatctag tggggctcc agagtgggga gggagaaagg acttggaaac ttcttggccc ttacgtctt agccalcaa ccttgagctg gagatagta cgaatggaca ggaactttcc ctggggccct ctggggccaca attcctggcc gaggagaaaga gggaggaaag gggtgagcacc ttctactc ctggggccat gttggtagagc tgcagctgca cctctcttg ccaataggca tagatgagt gggttggagcag ggggtggccc agcccagagca gccacaggta ccgttcaggc actaggttaga ggtggacactc ctggcaggcc acctgcacaa tgcagatgat aagggaaggggg gtcacaggata gggcaaaagt cccaatgaga acagacacacag tacgggaagagc tttgaagtcg ctggggatccc gttggggatcg ataaccca gccatggctc ctgcatgic calcttcca atctgctggc tgtgcatgga gggcaatctg agcatgctgc agtagaagaa gacaaagggg agcatggctg ggaagaaaggcc aacggcaggag agggctagca gaaagtggag gtagaataca gcaaaaggagc tgcactggcc ttgttaggca gtcctggga acatggggat tccgggtggg aggaagocaa tgaaggtaaga cactaacac agcccggcaa tgcaggcccc gggcacgaac ccactatga tctcaagta ggggaaggcc tgcgttatgg caaggtaacct gtaaaagggt atcagatga ccgttggagac agaggcagct ggcgaaggag tcaaatgct calccagagg ctgcacaggg tctcttgtt gggccaggaa gggctgggaga gcttgtctgt gagtagcca gtagaggcca caccaalcaa ggtgtcagcc acagccagat tcaagggtga gcaaggagctg acaccatcat tctgtggat caacagcagc acagccacag ccactatgtt gtagtagca atgatgagg agggccaggac agcaaggatc actccaaag aaaaagatga ttcatgtct gaaagtggca ggaactcat taccaggga t MESSFSFGVI LA VLASLIA TNLVAVAVL LLIHKNDGVS LCFTLNLAVA DTLIGVAISG LLTDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMILT FDRYLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQOTA YKQCSFFAV FHPHFVLTLS CVGFFPAMLL FVFFYCDMLK IASMHSSQIR KMEHAGAMAG GYRSPRTSD FKALRTVSVL IGSFALSWTP FLITGIVQVA CQECHLYLVL ERYLWLLGVG NSLLNPLIYA YWQKEVRLQL YHMALGVKKV LTSFLFLSA RNCGERPRE SSCHIVTISS SEFDG</p>
625	190748	GPCR Ls190748	CAC39548.1	P	Homo sapiens	<p>atggccaact ccacagggtt gaaagccctca gaaagcgcag gctcgttggg gttgactcg gacgtgtcg tggaggtggg ggcactgtcg gggcaacggcg cgtgtgtgtt cgttgggtgtcg cgtacggccgg gactgtcgga cgtgtctac ctggcgccac tgtgtgtt ggaactgtcg gggccggcgtt ccaatagcc gctggggcccg ctggccggcac cgtccggcccg gctggggcccg gttcggctgg gcccggccc atggccggcc gctcgttcc tctcggcc gctcgttcc gctcgttcc gctcgttcc cgacttgg ctggcagctt accgctcat cgtgcacccg ctgcggccag gctcgttcc gctcgttcc gctcgttcc ccggcgttgg gggccggcg ggaactgtcg gggcgttc cgtgtcgg ccggccggcc caccggccc tgccttctt cgtgtctgg tcttggctgg gggcgttgg ccttccgg cgtgttgg ccttggcc ttggcgttcc cgtcgttcc gctgtcgg gctacggcg gcatctgt ggttggcggt cgtcgttcc ggtcgttcc ggtcgttcc ggtcgttcc gactcgtc ggaacttct gtagccggc ttccatctt ggcggcgt cgtcgttcc ggtcgttcc ggtcgttcc ctggcccg cgttggcgtt gggccaattt gcaagcgtt ggaactgtt ggaactgtt ggaactgtt ggaactgtt ggccgggaa gccgaagcgg ctgtacatcg ggttgcctac tggcgttcc ggtcgttcc ggtcgttcc ggtcgttcc agcggccgtt ggttggca ctggggccg tcttccgg tgcactgtt ggaactgtt ggaactgtt ggaactgtt tggcaccg gggcactt gcaatgctc cagagacccc cagagggccc tggcgttgg ccttgggg cttcagaaca gaccccgag tggcaggag gggcggccc gcaatagc gggccactg agagtctt ccttga MANSTGLNAS EVAGSLGLIL AAVVEVGALL GNGALLVVVL RTPGLRDALY LAHLCVVDLL AAASIMPLGL LAAPPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAAALG LARYRLIVHP LRPGRPPPV LVLTAVVAAA GLLGALSLG PPAPPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGIFVVAR</p>
626	190749	G Protein-Coupled Receptor GPR62	AF317653	A	Homo sapiens	
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1	P	Homo sapiens	

628	190774	Histamine H4 Receptor	NM_021624	<p>RAALRPPRPA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALA VGGF AACWLPYGCA CLAPAARAAE AEAATVWVAY SAFAAHPLY GLLQRPVRLA LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPEGPAVG PSEAPEQTPE LAGRSPAYQ GPPESSLS</p> <p>ggagagatcac acaatttagg tatgtgatia gaaacacac tatgcagaat tgcctggcctg gattaatg ctaattgac ctcttcac atttagtg atgccaaag ctaatagcac aatcaattia tcaataagca cctggctgac tttagctt tttagctt tagtagctt tgctataag ctaggaaag cttagctat tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt ggccatctt gactcttg tgggttgat cccatctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tgatttgg ctaactag actatctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aaatgtctg tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tgggcaatg atctagtt cagagcttg gaaagagaa gaaagagaa gaaagagaa gaaagagaa gaaagagaa gaaagagaa cacatcalt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt cagtaggggc caagccatc tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt caaaggagatc tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt gaaacaaat gaaatgaa acaatgtt ccaaaatggg tttagctt tttagctt tttagctt tttagctt aacgtctag agccagagaa tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt atctcttt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt acagtggtc agtagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aatatttg tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt actatccag tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tgatcagtg tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tccagatt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aggtctcag tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tgaaagtatg tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt taagagatgg tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aaatttt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aggtcagag tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt cgccagc tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt cctggcaaca gaaagagatc tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt gaaatgcaat ctagctcag tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt actacagaa ctagctcag tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aatatttt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt atcagcaca cctctgctc tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt caccatgct tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt aagacaggt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tgctgggt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt taatgcat tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt tttagctt</p>	A	Homo sapiens
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629	190774	Histamine H4 Receptor	NP_067637.2	<p>acatttatt agtttggtta tttttttt tttaaaaaa tttttttt agatgggggt ctgtctgt tggccagca ggaatgcagt ggcatgct cagctcactg cagccctgac tgcctaggt cagcaatct tcttactga gctccagag tagctgggac cgaggcact tggccaccag cccactaaa aatttttaa atgttgct tcttgaagt gtctctgac tttttttt acaaatlc atttttca tagttaatt catctcgc gtaagattt atgttggt ttttttaa tttgagtc ttacaggt tggatgtt calgttct agaaactta aacctttac ttcaacatt aaaaataag tcttttaa atcagagtc ttgaaaagt acataagt tatataact tatgcttac attaaagtc aataagaa atacatgtt aacatcaat aataatlla aaaaattgag aataaaact tcaataagc aaaaaaaa aaaaaaaa</p>	P	Homo sapiens
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>MPDNTNSTNL SLSTRVTLAF FMSLVAFAM LGNALVILAF VVDKNLRHRS SYFFLNLAIS DFFVGVISIP LYPHTLFEW DFGKEICVFV LTIDYLLCTA SVYNVLISY DRYLSVSNV VSYRTQHTGVL KIVTLMVA VV VLAFLVNGPM ILVSEWKDE GSECEPGFFS EWWYLAITSF LEFVIPVL VAYFNMYTWS LWKRDHL SRC QSHPGLTAVS SNICGHSFRG RLSSRRSLA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVLHQR EHVELLRARR LAKSLAILLG VFAVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL CHKRFQKAF LKIFCIKKQPL PSQHSRSVSS</p>	A	Homo sapiens
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	<p>ccagagacta gaactacca gagcaagacc acagctggg aacagctcag gagcagacaa galggagaca aattctctc tcccacgaa catcttga gggacacctg ctgtatctc tggatctc ttcttgata tcatcatta tctgttatt tgcagtcact ttgtctcgg ggctctgggc aacgggctg tgaatgggt ggctggatc cggatggac acacagtcac caccatcgt tacctgaacc tggcctgggc tgaatctgt ttacacctca ctltggcaat cttaactg cgtatgac aggaaggaca tggccttc ggctggcttc tgtgcaatt cgttttacc atagtgagaca tcaactgt cggaaagtc ttcttgatg cctcatgic tctggaccgc tgtgttgcg tccigatcc agctggacc cagaaccacc gcaccgtag cctggccaa cctggccaa agggatga tgggcccgtg ggatgggt ctgtctca catggcagt tatcattgt gtagctacag taccgtgaa aacggggaca gtagctgca ctftaacit ttgccttgg accaagacc cttaaagag galaaatgt ggcgtgcca tgtgacgtt gtagggatc atccgtgca tcatggct cagcgaccc atgtcatcg ttgtctcag ttatggctt atggccca agatccaca gcaagcttg attagcca gtgctccct acgggtctc tcttttgc cagcagcct ttctctgc tggcccat atcaggttgg ggccctata gccacagca gaatcctga gttatgcaa ggcatgaca agaaatgg tatgtagtg galgagaca gggccctggc ctcttcaac agctgctca acccatgct ctatgtct atggccagg acttcggga gaggctgac caegccctc ccgccagctc ggagaggcc ctgaccagg actcaacca aaccagtag acagtlacca atttactt acccttgcga gaggtagt tacaagcaa gtaggagggg agctggggga cacttcag cccagctc cagctcgtc taccitgag ttggctgag cacaggcatt tctgttat ttaggatta cccatcacc agaaaaaaa aaaaaagcct tigtgtccc tgaattgggg agaaataaca galatgatt t</p>	P	Homo sapiens
632	190824	Formyl Peptide Receptor-like 2	NM_002030	<p>METNSSLPTN ISGGTPAVSA GYLFDIITY LVFAVTFVLG VLGNGLVWV AGFRMTHVT TSYLNLAVA DFCFTSLPF FMVRKAMGGH WPGWFLCKF VFTVDINLF GSVELIALIA LDRVCVLP HP VWTQNHRTVS LAKKVI GPW VMALLTLPV IIRVTTVPK TGTVACTFNF SPWTNDPKER INVAVAMLTV RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLIKSRPL RVLFSVAAAF FLCWSPYQVV ALIA TVRRE LLQMYKEIG IAVDVTSALA FFNSCLNPM YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK atggaaaca acttccat tctctgat gaaactgggg aggtgtccc tggcctgct ggccacaccg tctgtggat ctctcatg ctgtccacg gagtccact tgtctggg gtctggggca atgggctgt gatctgggtg gctggatcc ggaagcacg</p>	A	Homo sapiens

(FPRL2)

633	190824	Formyl Peptide Receptor-like 2 (FPRL2)	NP_002021.2	<p>cacagtaac accatcgt accigaacct ggccctagct gactctct tcagtgccat cctaccatc cgaatggct cagtcgccat gagagaaaa tggcccttgg cgtactct atgaatga gttcatgta tgaatgacat caacctgtt gtcagtgtc accgatcac catcattgt ctagccgtt gtaattgt cctgcatcca gccggggccc agaacatcg cacatgagt ctggccaaga gggtgatgac gggactcgg atttaccac tagtcttac cttaacaat ttaactct ggaataaat agttactac aatggggaca calactgat tttaactt gcatctgg gtagactgc tgaagaggg tgaacgtt tcaatacat ggccaagtc ttctgacc tcacttcat tatggctc accgtggcta tgcatacat cacagtcgc tatggagata tgcgtgcca aattcacaga aaccacalga ttaaaccag ccgtcccta cgtgtctg cgtcgtgtt ggctcttc ttaactgt ggctcccta tgaactaat ggcattciaa tggcagtcg gctcaagag atgtgttaa atggcnaata caaatcatt ctgtctga ttaacccaac aagctcctg gccttttta acagctgct caaccaatt ctactgt tatgggtg taacttcaa gaaagactga ttegtctt gccactagt ttggagaggg ccctgactga ggtccctgac tagcccca cagcaacac acacacct tctgttac ccttagga gacggagta caagcaatg ga</p> <p>METNFSIPLN ETEEVLPEPA GHTVLWFSL LVHGVTFVFG VLGNGLVIWV AGFRMTRTVN TICYLNALA DFSFSAILPF RMVSVAMREK WPFASFCLKL VHVMIDINLF VSVYLITIA LDRICVLHP AWAQNHRMTS LAKRVMTGLW IFTIVLTLPN FIFWTISIT NGDYCIFNF AFWGDTAVER LNVFITMAKV FLILHFIIG TVPMSTIVC YGHIAAKIHR NHMKSSRPL RVFAAVVASF FICWFPYELI GILMAVWLKE MLLNGKYKII LVLINPTSSL AFFNSCLNPI LYVFMGRNFQ ERLIRSLPTS LERALTVEPD SAQTSNTHIT SASPPEETEL QAM</p>	P	Homo sapiens
634	190948	EMR2 Hormone Receptor	NM_013447	<p>cggagacagg acagccctg ccaactcat ctctccctg ctgtctcgc cggcagctca gctggaaaca tggggaggccg cgtcttc ctctctc cactctgt ctagctgact ctgcggggag ctgaacacca ggaactccagg ggcctgctcc gggtgtgccc taggactcc tctgtgtca atgccaccg ctgctcgtc aatccagggt tcaagctctt tctgagatc atccacccc ccatggagac ttgtgagac atcaacagat gtagcaact gtagcaatg tcatggggaa aatctcggg ctgtgggaac acagaaggga gctagactg cgtgtgacg ccagagatag agccctgttc tggggcaaaa acattcaaga atgagggcga gaacacgtt caagatgg acgaatgta gcaagaacca aggcctctgta aagctacagg caccctgcgc aacacctcg gcaagctacac gtagcagtc ctgctgctt tcaagctcaa acctgaggac ccgagctct gcaagatgt gaatgaalg accctcggac aaaaaccatg ccacagctcc accacagct tcaacaact ggagcagctat cagtgccgt gccggccggg ctggcaaccg atccgggggt ccccaatgg cccaacat accgtctg agatgtgga cgaagtcagc tccgggcagc atcagtga cagctccacc gctgtctca acactgtgg ttcaatcagc tgcctgtgccc gccatggctg gaagcccaaga cagggatcc cgaataacca aaaggacact gctgtggaag atagacttt ctccactgg accccgcccc ctggagctca cagccagacg ctcccgat tctcgacaa agtccagagc ctggggcagag actaacaggcc aggtctggcc aataacacca tccagagcat ctacaggcg ctggatgagc tctggaggc cctggggagc ctggagagacc tggcccgctt acagcagcac tgtgtggcca gtcactgt ggaaggcccta gaggatgctc tcaagggctc gagaagaac ctccaatg ggctgtgaa cttagat ccagcagcca cagaatgtc ccgtggagtg cagaagcaga tgaacagagag tctaccttg agacagaalc aggcagatgt gcaagctgac tgaatcagg cacagaalac tgtgtaccca ggccctctg tgtgtggcc tctctcatt ccaaggagag gcaagtgt gctgtgaggc cctgtgtcc tggaaactga gaagcagatg ctctgcalg agacacacca gggtctgtg caggagcgct ccccatct gctcagat gtagctctg cttctgtg caacaacgac acccaaaacc tcaactccc agtaacttc acctctcc accgttcagt gattcccaga cagaagggtc tctgtctt ctggagagcat ggccaagaalg gattgtgta ctggggccac acaggtctga gcaataagg caccagagac accagacca tctgcccgtg caccacctg agcagcttg ccgtctcat ggccactac gattgtcag aggaaggatcc cgtgtgtact gtcatcact acatggggct gaggctct ctgtgtgccc tctctgtg gggccctac ttctctgt gtaaaaggcat ccaagaaacc</p>	A	Homo sapiens

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaatccac tgcattcga gctctgcctc tgcctcttcc tggcccaact cctctctc tgggcaattg atcaaacagg acacaaggcg ctgtctcca tcatccocgg tacttgcac tatctacc tggccacatt caccctggag ctgtggagg ccctgtacct ctctctact gcaagggaac tgaagggtgt caactacta agcalcaaca gattcalgaa gaagctcaltg ttcctgtgg gtiacggaggt cccagctgtg acagtgccca ttctgcagc ctccaggct cactttatg gaacacctc ccgctgtg cccaaccag aaaaagggtt latatggggc ttcttggag ctgtctggc cactctct tgggaattag ttctttct gggtgactct tggatttga aaaaagact ctctccctc aatagtgag tgcacacct ccggaacaca aggtatgtctgg callaaagc gacgctcag ctgtctacc tggctgtcac gttgtgtctg ggtgtgtc aggtgggtcc ggtgtccggg gtcaltggct acctttcac catcaaac agctgtcagg gttgtctcat ctctgtgtg tactgtctc tccagccaga ggtccggggag caatatggga aatgggtcaa agggatcagg aatgtgaaa ctgagcttga gatgcacaca ctctccagca gtgttaaggc tgaacctcc aaaccagca cgtttaaact gaaaactt ctgaaataaga tctctctct ttgccgtgtg aaaatctgaa caatcttga gcatctaga ggggaagaa aggtatgtt tctgtgt tcaagaatt caccaltga gcaatatgaa ggatgtatg gaaggcgtc tggcaltca attctgcag aaaccggaaa ttcttcagc cctgcaatt gctcalcaaa ctctcagcat atggaggcc agctgtggcc catacttg catacttga gcaaatatt tatgaagct tgaaggtta agacctt cacagctct cctctaca aagactctc caatcttaa aatgaagcag gaaaacagc ctgaaggag ttcalaccg acaacatcg aaggactag aatgtcaca ccacgaltc gatctttaa ttgtgt ttgtttgt tgtctctag ttctcgggt ttgatttt agtcaltga aaaatattga ttactcac atagatcaag agagacacagg ctctgctt calggaggt ttgggggaaa atgaagggtc tctgtcagct agatgtgact cagaagccga aatcttga aatcagggt ctactgtcag gcaattgaag tataaatat ttataaaca ctgtctct tcatctcac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>ggcaattct caccatcgt ggggtcagga agccctctt gaactctgac ttacgttct gctgggtt ctgccatt ttctataic ctctgacagc tgcagggtca tctgtctt ggtttctc caagcagac aatgggggc tctggaaagg ttaaggagc tcagtggoca ccaattact ttgcatctt ccgtgaagt gagggttga aggggaagcag gaagcccat ggtcagattg aagggaaggac tttttttt ttgttttt ttgtgaaat ggaagtctgc tctgtatc aggtggaggt gcatgtgtgc gatctcagct cactgcagcc tccacttct ggggttccat gattctctc cctcagccct ccaagtagct gaggactacag gcaatgcca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	<p> ctacaccag ctacttttg tattttatg agagacggggg tttaacatg tggccaggc tgggtctaaa ctgctaacat caagtgatct gctccctca gctcccaaa gtgctgggag tatccggatg taaccacaca accgccaca attttttattg tttagcttt tgcaggagac ttcaaggaaa ggaagacatc ctctgtccag gaaacgggga aggggacct ttctgtatg ctgggttcc ctctggcag ggtggggcag agggcatcat gttctgtc cctactct gctccatg ctacggctgc cagctcggcc caacttgg gtgtciaaag tggaaactgaa tagtagctgt ggaagagatag gaaagaggga gtggcaatc cctggccag atcataatc cagatcagc agggtaacca catggcaag caaagggtag gtgctgggg aagggggag taattggcat tctgtgtat accaaggga ccaattggat ttggctct accaaaga atggagaatt ggtgacctaa aatggaaaca gtccctttaa gtaaggggag gaaagggggt gctgggaagt gggccttcc ccaccacta gactatgt tgaactgaa ccaaggacag agtgctggcc cctcggcat ttactgtg ggccttita aatcatgag ttaictaac caaacaga ccaaggacct agtcacagct ccaactiaca ctctatita atctaaac aagcgaac aaacacaaa agatatac agatatac ccaatctag ccaatttcc ttctgtgt accatactc ctctctat atgatacat tcaacttt gtcaattat ccagctiaca cctgcatct gaggccacac cagcttct cactccac acccttct cctctcac tgccttcc tggcttcc tggcttcc tcaatctcc ccacttcc tggcttcc gttggctgg aaaaacagat atccccctc ctatgaaagg ggtgggtag ggttttag ccacctca ggaagatgg tcttctgt cctctgtct ggtgtactc ctctgggt gatttagcaa acagaccta gactggggc cagggcttgg gcatggggac agatccagg ataggctaca ccacctgg ccagacctgg gattggcatc agcttccac cagtctcgg caaagctgt aagcttccc gacggcatg aacatacat ctctgcagc acccttca ctatgggtag agttcatc tctgtgtct atcctcgg tctcagggc gtggtctgt gggcttccc gcaacagct tgggtgtgg agtatctga aagggatgca gaaagctct gtcactggc tgaagtgct gaactggcc ctggcgacc tggcggtat tctacttct ccttttcc ttacttct gggccaggc accgtgggt ttggatggc tgggtggc ctgtgtact atgtctggc agtagcatg tacggcagc tctgtctat cacggccag agtatagacc gctactggc ggtggccgc cctttgt ccaagagatc acgcaacaa gcatggccc ggcgggtgt ggcaggcalt tgggtgtgt cctttgt ggcacaccc gctcggct accgcacagt agtgccctgg aaaaagaaca tgaagctgt ctccggcg taccagcg aaggggcagc ggccttccat taaatctg aggtgtcac gggcttctg ctggcctcc tgggtgtgt ggcagctac tggagatag ggtgtcggct acagggccgg cgttccggc gcaagccgc caccggccg ctgggtggc tcaatct gaccttggc gcttctggc tggcttcc cgttggatc ctggctgagg cggccggcg gctggccggc caggccggc ggttagggct cgttggggag cggctgagcc tggccggcaa cgtgtctalc gcatcggct tcttgagcag cagcgtgaa cctgtgtgt aggttccag cggccggcg ctgtgtgt cggcggggt gggcttctg gccaaagctg tggagggcac ggtttccag gcttccag cggccggcg ctgtgtgt ggcagagcc ctaggagggc cccggcgct ctggagggc gcttccag gacttact gcttccag cctcaggt aaacgaactg aactggct ggtgggaagg ggcggcatt cctctggc gaatgtag tctggcag ttcatctt ggaaggag caggggcg gtaggggtg agggcggtgg agggggag gggggaggtg agtgggaagg gagggaaga tggagcaag tggggggc gtagagagc gctcagcct ggttccaca ggcagcttta accattaaa ctgaagctg aa </p>	P	Homo sapiens
638	191039	Trace Amine	AF380185	<p> MNTTSSAAPP SLGVEFISLL AIILLSVALA VGLPGNSFVV WSLKRMQKR SVTALMVLNL ALADLAVLLT APFLLHFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLLITA MSLDRSLAVA RPFVSQKLRT KAMARRVLAV IWVLSFLAT PVLAYRTVVP WKTNMSLCFP RYPSEGHRAF HLIFEAVTGF LLPFLAVVAS YSDIGRRLLQA RFRRSRRRTG RLVLILITF AFWLPYHV VV NLAEAGRALA GQAAGLGLVG KRLSLARNVL IALAFSSV NPVLYACAGG GLRSAGVGF VAKLLEGTGS EASSTRGGS LGQTARSGPA ALEPGPSESL TASSPLKLINE LN atgagccct ttggccaaa tataataat atttctgtg tgaataacaa cgggtcaaat gatgcggc ctcccgtg cagttaatg </p>	A	Homo

639	191039	Trace Amine Receptor 1 (TA1)	AAK71236.1	<p> gfgcicalaa ttctgaccac actcgttgcc aatcigatag ttatgttcc tatalacac ttcaacaac ttataccccc acaaatlgg ccaattcatt ccatggccac tggggactt cttcgggggt gtcgggact gacttaccgt atgggagat ctcgtgagca cgttgggat ttgggagag ttctciglaa aattcacaca agcacccagaca ttatcgtgag ctacgccc attuccatt tgccttcat ctcattggac cgtctatag cgtcgtgag ttccacigaga taaaagcca agatgaatat cttggttatt tgggtagaga tcttcattag ttggagtgic cctcgtgtt ttgcatgg aatgacttt cttggagcica acitcaagg cgtcgaagag atatatata aacatgtica ctcgaagga ggtgtcttg tctcttag caaaatlat ggggactiga ctttatgac ttttttat atacctggat ctattatgt atgtgtat tacagatat atctatagc taaagaacag gcaagatlaa ttatgtagc caatcagaag ctcaaatlg gattggaaat gaaaaalggg attcacaaa gcaaaagaaag gaaagctgig aagacattgg ggaatlgatg gggagttttc ctatatagt ggtgcccctt cttatctgt acagtcalg acctttct tcaactat attcaccta cttgaalga tgggttgat tgggttggct actggaact tacattat ccaatggtt atgcatitt ctacttgg ttagaagag cactgaagat galgctgtt ggtaaaaatt tcaaaaaa ttatocagg tgaatat ttggaaat gattcatag </p>	sapiens
				<p> MMPFCHNIN ISCVKNNWSN DVRASLYSLM VLJLTLTVG NLIVIVSISH P FKQLHTPTNW LIHSMATVDF LLGCLVMPYS MVRSAEHCWY FGEVFCIHT STDIMLSSAS IFHLSFISID RYAVCDPLR YKAKNNILVI VMIFISWSV PAVFAFGMIF LELNFKGAE IYYKHVHCRG GCSVFFSKIS GVLTFMTSFY IPGSMILCVY YRIYIAKEQ ARLISDANQK LQIGLEMKNQ ISQSKERKA V KTLGIVMGVF LICWCPFFIC TVMDPFLHYI IPPTLNDVLI WFGYLNSTFN PMVYAFFYPW FRKALKMMLF GKIFQKSSR CKLFLELSS </p>	Homo sapiens
640	191132	G Protein- Coupled Receptor 88 (GPR88)	NM_022049	<p> ggggttcaca ttagcacaca cttcgtctc ttgagcacagg gttctctct cttgagctca gttcttgatt ttgagcgaac gcatcttgc A tgcctgcgc tgcctgcga cccgctggg cttgcagccc gcaatttac ttctccagc cctgatacca gctgagaaat ctccctgcag cttgacttc cttgcagga ccatgtgtt ggaatgctt tgggagaaagc gggcacttgc tcttggcact gatccagct gatttctcc tgttattc ttgaccacig atgtcgttgc ttgaggagga ttcttggca tccctccccc ttgagacaccg gctaaaggacc agcctaaacg caagggcagga cagtgicagg atggaccgc cttgcagaag ccgacgctag cgaaggagggt ttgaagagtt gggcagaatg accaactct cttccacac cactctccc accacgggtg gctcgtctgt gctgtctgc gaggagagagg agtctgttggc gggccgggc atccgggtt cactctgta ttccgggtc gctcgtctgt gctcgtctgt caacgggcatg gtcactatc tctgtctgc ttccgaaag cttgcagaacca ccagcaaacg cttcatttg aacggctgtc ccgcccact cagctctgc gccccttgga ttccgcaagg gtcgggtctc gggctctctgc ccaaccggctc ttgctggagccc cccgcaagct gggagcggc ttggggggcagc taccgctgc tacgggggtg gctcgtctgt cttccggactca cgggttccct cctctccac tggctgttgg cctgaacgg clactgtct atcaaccggg cggccggcac ctaccaggc cttgacaga gggccacac ttggggggcatg cttgggtctgt cttgggggtc cggcttgggt cttgtgtctgc ttgtccggc cttgggtcaccg cggcccgggc cggccgcccac gctgaalccac taccgggcgc ttgtgggtc cggcggcggc gctcgggtc cttggtcgtc gctgcatcgc taccgtggga tctgtcggc cgttgcgtgc agcgtcagaagc ggttcagaagc gctcaactc cacttgcgtc accagttggc cggcttgc cggccggc cttgacaccgc cttgacaccgc gggggggcagc cagcggcggc gggccggcggc cgggtcggcagc ccaagccct gggccggc cttgacaccgc gggggggcagc ttgggtgagc ttgtcgtc cgttgcgtc gctcgtcgtc gttctctgc ttggccagca gctcgtcgtc ttgggtgagc ttgtcgtc cttcgtcgtc cgggttgcct gggggagtc cagcggccagc ttggtctctgt gctcgtcgtc ttccgggtc aaaccgtcgtc tctacacgtc ggggttgc gaggttccgc gctcgtcgtc cttggtcgtc cggggggcgtc gggggggcgtc gtttgcggc cagcggcgtc cggcagttgccc cagcggcagc ttggggggc cggccggcggc cagcagttg aactatggcc gggggggcggc gaggcgggga tcccgggtt cggcagctt ttggggggc cgtcgtctc cttctatggc cttccctgc cttgacggag acttccggc cgaaggccga tagatcgggg gaaaatgggg ccttcggacc cttgaccca gctgaccca ggggtctctc taagtggggc </p>	Homo sapiens

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>gcccgaagtc atttggacg gccacctgat tttaaccctt tggctctgtg tttagaggga alcciaaagi caaaacacca gagactlgaa gaactlgcaa actggcgllt laaataaacc ggtaatta ttccacaca gttgttlt gaaaagagagc ttataaalg lataccctt tccacttica tgcitlata taigaagcgc ctigagtgig calgaaccaa aggaataaac atigaagaag gaaaacaata tgaagaagt atttagaaa glaaccgtc ttugalgtg ctctctac cattlgtt ttataltta cccgggggca gigaagccct agggtggccc accagtatga gtggcatta agacctcaag ccccttatt tttaagggti ttataaaa gtccttica aalgaggtag aatcttagcc agtgaagaaa aaataatt ttgtctctt ttittgca ctctuaag gaaatagg cgttagagt ttatgtgaaa atttccagt ttataatg aalgtagag ccagcacgtg aatttgaaa acaataaag ttataicta tttaggtac cgtttacat tttctatgc algcacact gtgtclacc tcaatttg accaattt ttgcctatg aatgtatg cagcttgtaa cattctgtac tgaatgggt gctaagaaga ataatgctt cgtttctc tttaacatt aaataatc aalgacalg atataatua acaciatua taccalgct gcatagciaa laltgctgc laltgcatgc tcttagatgc lapaactlat tgggcatgtg gtatactgaa gcatatccc ttagacaagg alatttact tcttcagac accagaagaa alggtctca atatttgaa aagagacaca gagacacct tggclaccta gagttlcc tgtctgacc aattatgag aagctacca gtgggactt lalcacaa gtggatcac agtcaagacg galcaaat atgtgtgct cagcaagcc agctgtgtc tttaggggti taaacaagcc acagtatga aagcaacact gttttatgt agttcalata tattaccag acatttaaca tcaatatgt atatgtgaa ggagggtataa taaactcagt calatalagt gaacagtica aalggggaaag tgttctaaa calattatt gaggtgtc alattcact ttgtttact aaatttact agaaatatt gaaatgcana atgtgtgaa alcacctat caatauaaa tgggaagaaa gtaattua taattuaa taatcata tcaatctt gactacttac cacatcaat ctggggccaa acagocctag ttaacigcat aaltcaggaa caaaaccagc ttctttgtt gcagccctgg gcaatttcag ccaggacatt agggaccatt gtgtacatc tgaataatua tggaaagtgg gacagtuaa ggaaacaaa laltlcatc accaacaatc agctgtcatt ttataatc atocctttg tgaatgcacc atttctct tactaacagt ttacttgt cacatttcc ttgattcaaa tattaaagt cagaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p> <p>MTNSSSTSTS STTGGSLLLL CEEESWAGR RIPvSLLYSG LAIGTLANG MVIYLVSSFR KLQTTNSAFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQTALLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAAFPGA QHAPGPGGAA HPAQAQPLPP ALHPRRAQRR LSGLSVLLC CVLLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLYTWRN EEFRRSVRSV LPGVGDAAAA AVAATAVPAV SQAQLGTRAA GQHW</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>ggctgcaata actactact actgatalata ttaaacctt ccagaalcaa cagttalcatg glaaccaaca agaaalgcaa gocgtcgaca acctcacttc tggcctggg aacaccagtc tggcacacag agactacaaa atcacccagg tctcttcc actgcctac actgtctgt ttltgttg actalaca aatggcctgg cgalagagat ttcttcaa atcccgagta aatcaact tattatttt ctlaagaaca cagtcattc tgaatctc algattcga ctittcatt caaaatct agtgalgcca aactgggnaac aggaccactg agaaactttg tgtgtcaagt tactctgc atatttt ttcaaatga tatcagtt ttactctgg gactgtatac tatcgalcgc taccagaaga ccaccaggcc attlaaaca tcaacoccca aaatctctt ggggggctaaag attctcttg tttcatctg ggcattcag ttctactct ctggccctaa catgattcg accaaccaggc agccacaggca caagaalggt aagaatgct ctittctaa atcagaatc ggcttagct tggcatgaaat agtaaatatc atctgcaag tcaattctg gattaatc ttatltgta ttgtatgta tacactcatt acaaaagaac tgaacggc atacgtaga acgagggggg taggtlaagt cccagggaaa aagggtgaacg tcaagttt cattacatt gctgtatct ttattgtt tttctcttc cattttgoc gaattcttca caccctgagc caaacccggg atgtcttga ctgcactgcl gaaatatic ttgtatgt gaaagagagc actctgtgt taacttct aaalgcalgc ctggatccgt tcatctatt ttctcttgc aagtccttca gaaatctt gataagialg ctgaatgccc ccaatctgc aacatctcgc tccagggaca</p>	A	Homo sapiens

643	191168	P2Y ₁₂ Platelet ADP Receptor	NP_073625.1	<p>ataggaaaaa agaacaggat ggtggagacc caaatgaaga gactccaatg laaacaaat aactaaggaa alatttcaat ctcttgggt tcaagaatcg ttaagcaaaa gogctaaagta aaaaattataa ctagcaagaaga agcaactaag ttaataataa tgaactiaaa gaaacagaag atiaaaaaag caattttcat ttaccltcc agtaigaanaa gctatctaa aataataaaa actgtagcig tattagcagc aaaaacaaag ac</p> <p>MQAVDNLNTSA PGNTSLCTRD YKIQVLFLPL LYTVLFFVGL ITNGLAMRIF P Homo sapiens FQIRSKSNFI IFLKNTVISD LLMILTFPFK ILSDAKLGTG PLRTFVCQVT SVIFYFTMYI SISFLGLITI DRYQKTTTRPF KTSNPKNLLG AKILSVVIWA FMFLLSLPNM ILTNRQPRDK NVKKSFLKS EFGLVWHEIV NYICQVIFWI NFLIVIVCYT LITKELYRSY VRTRGVGKVP RKKVNVKVI IIAVFFICFV PFHFARIPYT LSQTRDVFDC TAENTLFYVK ESTLWLTSLN ACLDPFIYFF LCKSFRNSLI SMLKCPNSAT SLSQDNRRKKE QDGGDPNEET PM A Homo sapiens</p> <p>aiggigaala atttccca agctgaaggct gtaggagctgt gttacaagaa cgtgaacgaa tctlgcattt aaactctta ctgcagggt cctgcatctt tccclacgc cgtcttgggt ttggggcg tgcctggcagc gtttggaaac ttactggca tgaatgclat ccttcacttc aaacaactgc acacactac aaacttctg attggctgc tggcctgicg tgaacttctg gtaggagta cigtgagcc cttcagcaca gtaggctcg tggagagcig ttggacttct ggggacacgt aciglaaatt ccatatcatgt ttgacacat ccttctgtt tgccttita ttacttatt gctglatctc tgttgalaga tcatgtcig ttactgatcc tctgacctat ccaaccaagt ttactgtgc agtticagggg atatgaltg ttcttctcgt gttcttcti gicacalaca gcttttcat cttttacacg ggagccaacg aagaaggaaat tgaaggaatia gtagtgcic taaccttctg agggagcgc caggctccac tgaatcaaaa ctagggcttca cttgtttc ttacttct tatacccaat gtcgcatgg tgtttalala cagttaagata ttittgttgg ccaagcatca ggttaggaag atagaaagta cagccaacca agctcagctc tctcagaga gttacaagga aagaagaga aaaaagaga gaaaggcgc caaaacttg ggaatgcta tggcagcalt tctgtctct tggtaocat acctctga tgcagtgat gatcttata tgaattttat aaactctct tatgtttatg agattttagt ttgtgtgt ttataaati cagctatgaa ccccttgaat tagtcttct ttaccaatg gtttgggaag gcaataaac ttatgaag cggcaagtc ttaaggatg attgcacac aactaatta ttctgaag aagtagagac agattaa MVNNFSQAEA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGA VLA AAFGN P Homo sapiens LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVSVSG ICIVLSWFFS VTYSFSIFYT GANEEGIEEL VVALTCVGC QAPLNQNWVL LCFLLFFIPN VAMVFIYSKI FLVAKHQARK IESTASQAQS SSESYKERVAKRERKAAKTL GIAMAAFLVS WLPYLVDVAVI DAYMNFITPP YVYEILVWCV YVNSAMNPLI YAFFYQWFGK AIKLIVSGKV LRTDSSTTNL FSEEVETD</p> <p>algaalgagc cactagactia ttagaatg gcttctgatt tcccgatta tgcagctgct ttggaaat gactgaiga aaacatccca A ctcaagatgc actactccc tgtttattt ggcattatct tctctgggg atttcaggc aalgcagtag tgaatccac ttactttic aaaatgagac ctgggaagag cagcaaccatc attatctga acctggcg cagagatcig cigtatcga ccagctccc cttcttgatt cactatag ccagtggga aaactggatc ttggagatg tcatgttaa gtttaccgc ttactctcc attcaacct gtatagcagc atctctccc tcaacttct cagcaltctc cgtactgic tgaatcaga ccaatgagc tgcitttoca ttacaaaac tcatgtgca gttttagcc tgcctgtgtt gtagatcalt tcatgttag cgtctccc gtagccttc tgaatcalt caaccaacg gaaccaaga tcatgtgic tgcactcag cagtcggat gaactcaata cttaataag gtaacacig atttgacig caactatt ctgcctccc ttgtgttag tgaacatg ctatcacag attatcaca ctctgacca tggactgcaa actgacagct gacttaaga gaaagcagca agggtaacca ttctgact ccttgatt ttactgtt tttaacct ccaatctg agggctalc ggatgaaic tgcctgcti tcaatcagtt gttcattga gaatcagatc catgaagct acatgctc tagaccatt gctgctciga acactttgg</p>
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>644 191193 Trace Amine Receptor 3 (TA3) AF380189 Homo sapiens</p>
645	191193	Trace Amine Receptor 3 (TA3)	AAK71240.1	<p>645 191193 Trace Amine Receptor 3 (TA3) AAK71240.1 Homo sapiens</p>
646	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>646 191196 G Protein- Coupled Receptor GPR80 AF411109 Homo sapiens</p>

647	191196	G Protein-Coupled Receptor GPR80	CAC51133.1	taacctgtta ctatagtgg tggcagcga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga acctgagca agcaagaaga atagttaact caaacaaccc ttag MNEPLDYLAN ASDFPDYAAA FGNCTDENP LKMHYLPVIY GIIFLVGFPG NAVVISITYF KMRPWKSSIT IMLNLACTDL LYL TSLPFLI HYYASGENWI FGDFMCKFIR FSHFNLYSS ILFLTCSIF RYCVIHPMS CFSHKTRCA VVACA VVWII SLVA VPMTF LITSTNR TNR SACLDLTSSD ELNKTWYNL ILTATFLCLP LVIVTLCYTT IIHTLTHGLQ TDSCLKQKAR RL TILLLLAF YVCFLPHIL RVRIESRLL SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataaag acttaatic ttaagctc tgaattctc tctgtaaa cagggcggt aattaccaca taacaggctg A gtaatgaaaa tcaatgaaca tgcagcaggt gctcaagct tgttttgt tccaggggca ccaatggagg ttcttgagc atggatccaa caacccggc ctgggggaaca gaagataca cagtgaatgg aaatgacca gccctcttc tcttttgtg caaggagacc cigatcccg tctctgat cctttcatt gccctggcgg ggcctggtagg aaacgggttt gtcctcggc tccctggctt ccgcalgcgc aggaaagcct tctctgcta cgtctcagc ctggccgggg cgcacttct cttctctgc ttcagatta taaattgctt ggtgacctc agtaactct tctgttccat cttccatatt ttccttagct tctcaccac tctgatgacc tctgtctacc ttcagggctt gaggatgctg agcacctga gcccgagcg ctgcctgtcc gtcctgtggc ccatctggta tgcctggcgc cgtcccgagc acctgtcagc ggctgttgt gtcctgtct gggccctgtc cctacgtctg agcatctgg aaagggaagt ctgtggcttc ttatttagt atgttgactc tgggttgtgt cagacattg altatcac tgcagcgtgg ctgatttt taltcagtt tctctgtgg tccagctcgg cctgtcctgt caggatcttc tctgtctca ggggtctgac actgaccagg ctgtactctga ccatctgct caccgtctg gctgtctcc tctcggcct gccctggc altcaggtt tctaatatt atggatctgg aagpacttg atgtctatt ttgtcatatt catcagttt cagttgtct gtcactct aacagcgtg ccaacccat catuactc tctgtggctt ctttaggaa gcagtgccgg ctgcagcagc cgatctcaa gctggctc cagagggcct tgcaggacat tctgtgggtg gatcacagtg aaggatgctt ccgtcagggc accocggaga tgcagagaag cagctgtgg tagatagga cagcctcac ttcactaga tatatggc ttgagaggc aacttgccc ctgtctgt gatttctga acttctcag tctgtatt aaacagta agagagctt tctgaggtt aagttagaca MDPTTPAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI AL VGLVGNF VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQINCLVYL SNFFCSISIN FPSFTTVMY CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFDGDSGWC QTFDFITAAW LFLFMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTLVL VFLLCCLPFG IQWFLILWIW KDSDVLFCHI HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPEMSRSSLV tcataacti gacatctt ttcaggcaaa agtttagat acacttgagg cattttccct gcataatgti gcaaatgctt gtcctgaag atcttgctt tctgcagg ttcagacti gccactagag ctgggattgg tcatgtgac atgtgcgtc atggagtagg gtagagcagg actcaggca atgtctgcta cactatggga agaataacig tagatcact tgaataaggc agactttgtg ttaatctt gctacaat aataacatag catttggga tagaalgca atacaggat ccatagtag ataatatag gacaataic tccacagctg gtacatatt gccaaatgt gtagatalga tagggatga tctgatalcaa gctatgaat aatagatgat gccaaatgt atgaattgg cttcattgt atctcat tgccttga aagcaaat gaaagcaatg aaggccaggga tggcaatgt gccacagcatg gtgccaatg caagatgga tccctcica cactccagg tgaatgact gggcaaggag acatttacct ctacagtag tctgcaaatg attagcaga gtgtgcaat gacaacctg atgcccgtgc aagtgaagat aataaggatc ggtctataga ggcactcag aaattctgt aatttgggt caaagctgaa ggcagcaaaa attttcagag acttcgcaa aatgcaggag atgcaagag taagctcac tcaaacatt gctgtccctg tttaactgt gaagtctgt ggtttccaa tgaataagct cgtgtcggca	Homo sapiens
648	191218	MrgX2 G Protein-Coupled Receptor	AY042214		Homo sapiens
649	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1		Homo sapiens
650	191222	G Protein-Coupled Receptor Ls191222	LG94359		Homo sapiens

Homo sapiens

P

651 191222 G Protein-Coupled Receptor Ls191222 ENSP00000199 719

aaattgagga aatgacagag aaggatcaca tagcagactc ttaatcccc ggaigtattc acaacaggig tgtcaggt
tcttgtaa atattgcaa caaccagaac aatatgatt ccagtagagg agagaatcag gattaggaig gccaaggagt
cattccaggt gagatatcc acttcttitt caaagcacat agtgcctta acaggggccc agttagtitt gttgtgcat aaaaaggcagt
gagcatalc 1

QTLAMHISIE MINNSTLLPG VKLGYEYDT CTEVTVAMAA TLRFLSKFNC
SRETVEFKCD YSSYMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGVEST
AEILSDKIRF PSFLRTVPSD FHQKAMAHL IQKSGWNWIG IITDDDDYGR LALNTFFIIQA
EANNVCIAFK EVLPAFLSDN TIEVRINRTL KKILEAQVN VIVVFLRQFH VFDFLNKAIE
MNINKMWIAS DNWSTATKIT TIPNVKKIGK VVGFAFRNGN ISSFHSFLQN
LHLLPSDSHK LLEYAMHLS ACAYVKDIDL RLHISQLAV FALGYAIRDL
CQARDCQPN AFQPWELLGV LKNVTFIDGW NSFHDAHGD LNTGYDVVLW
KEINGHMTVT KMAEYDLQND VFIPDQETK NEFRNLKQIQ SKCSKECSPG
QMKKTTRSQH ICCYECQNC ENHYTNQTDN PHCLCNKNT HWAPVRSTMC
FEKEVEYLNW NDSLAILLI LSLGIIIFVL VVGIIIFRNL NTPVVKSSGG LRVYVILLC
HFLNFASSTF FIEGPQDFTC KTRQTMFGVS FTLCISCLT KSKILLAFS FDPKLQKFLK
CLYRPILIF TCTGIQVVIC TLWLFAAPT VEVNVSRLPV ILECEEGSI LAFGTMLGYI
AILAFICFIF AFKGKYENYN EAKFITGML IYFIAWTFI PIYATTFGKY VPAVEIIVL
ISNYGILYCT FIPKCYVIC KQENTKSAF LKMIYSYSSH SVSSI

Homo sapiens

A

652 193511 EGF-Like Module-Containing Mucin-Like Receptor EMR3 NM_032571

titttgagc taggaagaagt gattggctta cggcacagta gagagcttc agggctggct ggcgtgggat accgtacca
cagaaatga gggaccatg cttctccag gctctgcti tctgtgagc cttctggag cttgtgacta gaaacacaaa acttctgig
ctaaagcccc ccaaatgct tctgtgca ataacactca ctgcacctgc aaccatggt alactctgig atcttgagcag aaactatca
cattcccci ggagacatgt aacgacatta algaatgac accacctat agttagtatt gttgatttaa cgtctgigt tacaatgctg
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cctcactgca tctgagctc tctgtctgoc tctctgtgc ccactctc tctctgtg ggaatggatg aactgaacc aagggtgctgt
gctccatcat cgtccgtgtgt ttgcatac tcaactgag cgtctcacc tggatgctc tggaggggtgt gcaactctc ctactgac
ggaaacctgac agtgggtcaac tactcaagca tcaatgact caigaagtg alcatgtcc cagtctggcta tggcgltccc
gctgtgactg tggccatttc tggccctcc tggccctacc ttatgggaac tgtgtgac tgtgtgctcc acctggacca
gggattcatg tggagtttcc tggccatgt ctgtgtccat ttctgtcga attagatit gtttttggg ttgtgaaag
aaaacttcc tccctcaata gtagagtgic aacctccag aacacaaggga tgtgtgctt caaagcaaca gctcagctct
tcalctggg ctgcacatgg tgtgtgggct tgtacaggt ggggtccaggt gcccagggtca tggcctacct ctccacc

653	193511	EGF-Like Module- Containing Mucin-Like Receptor EMR3	NP_115960.1	<p>atcaacagoc tcaaggctt cttaacttc ttggtciact gctctctcag ccagcaggic cagaacaat atcaaaagtg gttagagag atcgtaaat caaatctga gctcagaca tacacactt ccagcaagat gggctctgac tcaaaacca gtgagggaga tgttttcca ggacaagtga agagaaata taaacacag aatatacag tcaatagga aatatac catggaic ttggcata tgaagaatga agctaaggaa aagggaatic ataaacata tcatcttgg agagggaatga atcaacctt actlccaag ctgtgttc tccacaatag gctcaaca aatgttgtt aatgtcatt tctctcaaa aaaaaa MQGPLLPGL CFLLSFGAV TQTKTSCAK CPPNASCVNN THCTCNHGYT SGSGQKLFY PLETCNDINE CTPYSVYCG FNAVYVVEG SFYCQCVPGY RLHSGNEQFS NSNENTCQDT TSKTTEGRK ELQKIVDKFE SLLTNQTLWR TEGRQEISST ATTILRDVES KVLETALKDP EQKVLKQND SVAJETQAIT DNCSEERKTF NLNVQMNSMD IRCSIIQGD TQGPSAIAFI SYSSLGNIN ATTFEEMDKK DQVYLSQVV SAAIGPKRNV SLKSQVTLTF QHVKMTPTK KVCVYWKST GQGSQWRDG CFLIHVKNKSH TMCNCSHLSS FAVLMALTSQ EEDPVLTVIT YVGLSVSLC LLLAALTFLL CKAIQNTSTS LHLQSLCLF LAHLLFLVGI DRTEPKVLCS IIAGALHYLY LAAFTWMLLE GVHLFLTARN LTVVNYSSIN RLMKWIMFPV GYGVPVAVTVA ISAAWPHLY GTADRCWLHL DQGFMSFLG PVCAIFSANL VLFILVFWL KRKLSSLNSE VSTIQNTRML AFKATAQLFI LGCTWCLGLL QVGPAQVMA YLFTIINSLQ GFFILVYCL LSQQVQKQYQ KWFREIVKSK SESEYTYLSS KMGPDSPSE GDVFPQVKR KY KHAYICLAAI WAYASFWTM PLVGLGDYVP EPFGTSTCLD WWLAQASVGG QVFILNLF CLLLPTAVV FSYVKIIAKV KSSKEVAHF DSRHSHVL EMKLTKVAML ICAGFLIAWI PYAVSVWSA FGRPDSIPQ LSVVPTLLAK SAAMYNPYI QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTTVRKSSAV LEIHEEV agcgaacct cggggcgccg gggagccatg ttggagcgc gggaggcgc agcagcgc gggatcigt gggggggcg gaaaagcca gggcgccagc ccggaggggc tccggccgc gaggagatgg tccagagag gggcggggg tgggggaga caggcgagg gggcgggggc cggcggggc gcaaggggcc gggagggggc ccgagcggc gggcgagcc aaggccggga cggggcggg gggcggtgga ggcggtgca gggaggggga gatgatggc aggcggccgc cgtggcggg ctcggggaa cggcgagcc ccatatctt gctcttc ctcctt tccctcag ccaggaggag ctggggggcg gggcgacca gggcgggag ccaggcttag ctgacctac gggggccaag ggcataic gggcgggagc cttagcttt tgcggagt ctccgggt ccggaggat gggggggc ggcggggct cagggagct atctgtg ggctcgagg gaggagcca agcgccgga atagtcgagg gccccttag cagcgaatg aggaagctgg gattgaacac ggctccagc catggcgag ccggaacga gaggacagac agggagcagg gctctgta tactggcc cagaggtc ctctgggg ccgacagag cttggcaag aggtatgctg tcaacagggg ctctgctc aggggtccg ggtcggggga acagctgcc cctccctca gacttttga ttgggacca cgggtccag ccggtgtct cccagcgga cgtcgggaca ggctccgca aagagtgagg caccgcg tctgtggg aatagggg aacaggagc aagggtcagg gggagagag cagacatcc gaggagaaa ggaagccccc ccggcggaac tggcttcag gggcccggg atctggcccc gaggctgalt cagcaccag cagcgagg acagctctc catcagttc agcagcccc aggtctcgga cagctccga gcccggccc aaggcgagc gctccgggg tcttccgc tgcgcttc tccggcagc ccccgggccc cgtccccc gactccggc ccgtctgaa gccaggaag taacctggc gaacggggca cgtcttcg cggccggcaaa ccggccagc cagttccgc agtaacacta ccagagctg gtcgggaga atgagcgag agggagcg ggtgacgg tgggtgctca gggccgggac ggcgaggag ccggcgcc agtactag ctggcgggac taagaaag ccgctcgct gaggcttca gcatcgacc</p>	P	Homo sapiens
654	193516	G Protein-Coupled Receptor d1402H5.1	CAC21687.1	<p>agcgaacct cggggcgccg gggagccatg ttggagcgc gggaggcgc agcagcgc gggatcigt gggggggcg gaaaagcca gggcgccagc ccggaggggc tccggccgc gaggagatgg tccagagag gggcggggg tgggggaga caggcgagg gggcgggggc cggcggggc gcaaggggcc gggagggggc ccgagcggc gggcgagcc aaggccggga cggggcggg gggcggtgga ggcggtgca gggaggggga gatgatggc aggcggccgc cgtggcggg ctcggggaa cggcgagcc ccatatctt gctcttc ctcctt tccctcag ccaggaggag ctggggggcg gggcgacca gggcgggag ccaggcttag ctgacctac gggggccaag ggcataic gggcgggagc cttagcttt tgcggagt ctccgggt ccggaggat gggggggc ggcggggct cagggagct atctgtg ggctcgagg gaggagcca agcgccgga atagtcgagg gccccttag cagcgaatg aggaagctgg gattgaacac ggctccagc catggcgag ccggaacga gaggacagac agggagcagg gctctgta tactggcc cagaggtc ctctgggg ccgacagag cttggcaag aggtatgctg tcaacagggg ctctgctc aggggtccg ggtcggggga acagctgcc cctccctca gacttttga ttgggacca cgggtccag ccggtgtct cccagcgga cgtcgggaca ggctccgca aagagtgagg caccgcg tctgtggg aatagggg aacaggagc aagggtcagg gggagagag cagacatcc gaggagaaa ggaagccccc ccggcggaac tggcttcag gggcccggg atctggcccc gaggctgalt cagcaccag cagcgagg acagctctc catcagttc agcagcccc aggtctcgga cagctccga gcccggccc aaggcgagc gctccgggg tcttccgc tgcgcttc tccggcagc ccccgggccc cgtccccc gactccggc ccgtctgaa gccaggaag taacctggc gaacggggca cgtcttcg cggccggcaaa ccggccagc cagttccgc agtaacacta ccagagctg gtcgggaga atgagcgag agggagcg ggtgacgg tgggtgctca gggccgggac ggcgaggag ccggcgcc agtactag ctggcgggac taagaaag ccgctcgct gaggcttca gcatcgacc</p>	P	Homo sapiens
655	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NM_001407	<p>agcgaacct cggggcgccg gggagccatg ttggagcgc gggaggcgc agcagcgc gggatcigt gggggggcg gaaaagcca gggcgccagc ccggaggggc tccggccgc gaggagatgg tccagagag gggcggggg tgggggaga caggcgagg gggcgggggc cggcggggc gcaaggggcc gggagggggc ccgagcggc gggcgagcc aaggccggga cggggcggg gggcggtgga ggcggtgca gggaggggga gatgatggc aggcggccgc cgtggcggg ctcggggaa cggcgagcc ccatatctt gctcttc ctcctt tccctcag ccaggaggag ctggggggcg gggcgacca gggcgggag ccaggcttag ctgacctac gggggccaag ggcataic gggcgggagc cttagcttt tgcggagt ctccgggt ccggaggat gggggggc ggcggggct cagggagct atctgtg ggctcgagg gaggagcca agcgccgga atagtcgagg gccccttag cagcgaatg aggaagctgg gattgaacac ggctccagc catggcgag ccggaacga gaggacagac agggagcagg gctctgta tactggcc cagaggtc ctctgggg ccgacagag cttggcaag aggtatgctg tcaacagggg ctctgctc aggggtccg ggtcggggga acagctgcc cctccctca gacttttga ttgggacca cgggtccag ccggtgtct cccagcgga cgtcgggaca ggctccgca aagagtgagg caccgcg tctgtggg aatagggg aacaggagc aagggtcagg gggagagag cagacatcc gaggagaaa ggaagccccc ccggcggaac tggcttcag gggcccggg atctggcccc gaggctgalt cagcaccag cagcgagg acagctctc catcagttc agcagcccc aggtctcgga cagctccga gcccggccc aaggcgagc gctccgggg tcttccgc tgcgcttc tccggcagc ccccgggccc cgtccccc gactccggc ccgtctgaa gccaggaag taacctggc gaacggggca cgtcttcg cggccggcaaa ccggccagc cagttccgc agtaacacta ccagagctg gtcgggaga atgagcgag agggagcg ggtgacgg tgggtgctca gggccgggac ggcgaggag ccggcgcc agtactag ctggcgggac taagaaag ccgctcgct gaggcttca gcatcgacc</p>	A	Homo sapiens

[illegible]

[illegible]

[illegible]

656	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CEL5R3)	NP_001398.1	<p>gcaaaaggag cagaacaag ggaattcaag accagaalg taggtgccac tgcctccat gttacagga tccctcg18g ccctaggcac ctggcg1ga ggaagtact cctgccact cctcttlat tccitaaaa agggaaaaat gactgtacg accctgtca caaaactct acttctgtc tttgtctgc tgcagaac tgaagactt aaaaattgt tactgttacc aagtcacat tcaaaaaag tttttactt gtttacaact caaaacttg agttttacac ttgtttaca gtagataatt tttttctt tttttcaag tgaaggagag ggaagtgagg agaaggactt ggaaggacca cctgtgagga ccttgacctg gccacttga ggggtttct aacccacagg tctccacagg cgaaggtcag ccttgagtc cgtttaacag cagatccaga agacttggag agtaggcgtc ctlaaacac gggggagagt ggcgtgcag ggcggggggg tggcgtgc agacaccc cccccacca ccccaigcal actctggga agcagctcc tgggagalia gaaattctac ttcctgact ggaagctaat cccaccagcc aggaaccaaa ctctcttac cgagaaggac cccagcttt gaaggc1ga tggcctgct ggggg18gga ggggtgcttt actatgctct aggttctga galgccctc tctggggtc cctctctcca gccagcggc cctcttct gtc1gtgtaa atgttccgt gaagccgagc tctgtttgg gaataact ctatagaaa caaaa</p>	P	Homo sapiens
				<p>MMARRPPWRG LGERSTPILL LLLLSLPLS QEELGGGGHQ GWDPLAATT GPRAHIGGA LALCPRESSGV REDGGPGLGV REP1FVGLRG RRQSARNRSG PPEQNEELG IEHGVQPLGS RERETGQPG SVLYWRPEVS SCGR1G1P1QR GSLSPGALS GVPGSGNSSP LPSEDLIRHH GPKPVSSQRN AGTGSRKRVG TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR TARTAPASGS APRESRTAPE PAPKMRSRG LFRCLPQR PGP1PPGLPA RPEAR1V1SA NRARFRRAAN RHPQFPQYNY QTLVPENEA GTAVLRVVAQ DPDAGEAGRL VYSLAALMNS RSELEFSIDP QSGLIRTAAA LDRESMERHY LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY P1QLRA1DG DAPPNANLRY RFVGP1AARA AAAAAFEIDP RSG1LISTGR VDREHMESEY LVVEASDQ1Q EPGRSATVR VHTVLDEND NAPQFSEKRY VAQREDVRP HTV1VRV1TAT DRDKDANGLV HYN1ISGNSR GHFAIDSLTG EIQVVA1PLDF EAEREYALRI RAQDAGR1PL SNNTGLASIQ VVDINDH1PI FVSTPFQVSV LENAPLGHSV IH1QAVDADH GENARLEYSL TGVA1DTPFV INSATGWVSV SGPLDRESVE HYFFGVEARD HGSP1LSA SVTVTVLDVN DNRPE1T1MKE YHLRLNEDAA VGTSVVSVTA VDRDANS1S YQ1TG1GNTRN RFA1STQGGV GLVTLALPD YKQERYFKLV LTASDRALHD HCYVH1N1TD ANTHR1PVFQS AHYSVSVNED RPMGST1V1 SASDDDVGEN AR1TYLLEDN LPQFR1DADS GATLQAPLD YEDQV1TYLA ITARDNG1PQ KAD1TYVEVM VNDVNDNAPQ FVASHYTGLV SEDAPPFTSV LQ1SATDRDA HANGRVQYTF QNGEDGDGDF T1EPTSG1VR TVRRLDREAV SVYELTAYAV DRGVPL1RTP VSIQVMVQDV NDNAPVFP1AE EF1EVRVKENS IVGSVVAQ1T AVDPDEG1PNA HIMYQ1VEGN IPELFQMD1F SGELTAL1DL DYE1ARQ1YV1 VVQATSAPLV SRATVHVR1V DQNDNSPV1N NFQ1LFNNYV SNRSD1TPSG IIGR1PAYDP DVSDHLFYSF ERGNELQ1LV VNQ1TSGELRL SRKLDNNR1PL VASMLVT1VD GLHSVTAQCV LRVVIITEEL LANSLTVR1LE NMWQERFLSP LLGRF1LEGVA AVLATPAEDV F1FNIQND1TD VGGTVLNVSF SALAPRGAGA GAA1GPWFSE ELQEQLYVR1R AALAARS1LD VLPFDDNVCL REPCENYMKC VSVLRFDSSA PFLASAT1LF RPIQ1PIAGLR CRCP1PGFTGD FCETELD1LCY SNPCRN1GGAC ARREGGYTCV</p>		

DTEAGRCV PGVCRNGGTC TDAPNGGFC QCPAGGAFEG		
SSFVFRG LRQFHLTSLSFATVQQSG LLFYNGRLNE		
QVRLTYST GESNTVVSPT VPGGLSDGQW HTVHLRYYNK		
PSKDKVAVL SVDDCDVAVLQFGAEIGNY SCAAAGVQTS		
LGGVNLPEFPVSHKDF IGMARDLHID GRRVDMAAFV		
KLHFCDSGP CKNSFCSESR WGSFSCDCPV GFGGKDCQLT		
TLSNWFGSD MAVSPWYLG LAFRTRATQG VLMQVQAGPH		
SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLELQEEPG		
LDLSLFQDT MAVGSELQGL KVKQLHVGG LPPGSAEEAPQ		
GSTPSGSPA LLPPSHRVNA EPGCVVTNAC ASGPCPPHAD		
QPGYYGPG CVDACLNP C QNGGSCRHLP GAPHGYTCDC		
RMDQQCPRG WWSPTCGPC NCDVHKGFDPCNKNKTNQCH		
SCLPCDCY PVGSTSRSCA PHSGQCPCRP GALGRQCNSC		
RVLVDACP KSLRSGVWWP QTKFGLATV PCPRGALGAA		
EPDLFNCTSPAFRELSLL DGLELNKTAL DTMEAKKLAQ		
YFSQDVRT ARLLAHLLAF ESHQQGFGLT ATQDAHFEN		
TGDLWAAL GQRAPGGSPG SAGLVRLHLE YAAATLARNME		
NIMLSIDR MEHPSSPRGA RRYPRYHSNL FRQDAWDPH		
SPSEVLPT SSSIENSTTS SVVPPAPPE PEPGISIIL LVYRTLGLL		
RLPQNVMN SPVSVAVFH GRNFLRGILE SPISLEFRLL		
WDPPGLAE QHGVTWTRDC ELVHRNGSHA RCRCSTRGTGTF		
EGDLELLA VFTHVVAVS VAALVLTAAI LLSLSLSKSN		
GVAEELLFL LGHRTNQL VCTAVAILLH YFFLSTFAWL		
VEPRNVDRG AMRFYHALGW GVPVAVLLGLA VGLDPEGYGN		
IWSFAGPV VLIVVMNGTM FLAARTSCS TGQREAKKTS		
VSASWLF GLLAVNHSIL AFHYLHAGLC GLQGLAVLL		
WMPACLGRK AAPEEARPAP GLPGAYNNT ALFEESGLIR		
ARSGRTO DQDSQGRSY LRDNVLRHG SAADHTDHS		
AMFHRDAGA DSDSDSL EEERSLSIPS SESEDNGRTR		
SERLLTHP KDVDGNDLLS YWPALGECEA APCALQTWGS		
ANNQPDALTSGDETS L GRAQRKGI LKNRLQYPLV		
RAATLGRH AVPAASYGRI YAGGTTGSLSPASRYSSRE		
ERLEEAPA PVLRLSRPG SOECMDAAP RLEPKDRGST		
AMAGRFGS RDALDLGAPR EWLSTLPPR RTRDLDPPPP		
DPLPSRP LDSLSRSSNS REQLDQVPSR HPSREALGPL QLLRAREDS		
LDLSSIL ASFNSSALSS VQSSSTPLGP HTTATPSATA SVLGPSTPRS		
EVPRSEGH		
cca gcctcccaac agcagttgg ccctaagta gaattggact aacactagg ccacccggc	A	Homo sapiens
l cctactatca gcacacctcc cctgtggggc ccatgtcat tgggctcat tccgtcttg		
lgg tctgttcat cgtgtcaag aacccggcaca tgcatactgt caccacaalg ttactctca		

658	193914	Neuropeptide FF 1 Receptor	NP_071429.1		<p> aactggctgt cagtgaacctg ctgggtgggaca tctctgcat gccacacacc ctltgggaca acctcalcac tgggtggccc ttggacaatg ccacalgcaa gataagcggc ttgggtggcagg gcatgtctgt gtccggcttcc gtlttcacac tgggtggccat tgcgtgggaa aggttccgct gcatcgtgca cctttccgc gagaagcttga ccttgcggaa ggcgtctgtc acctcggcc tcatcgggc cctggcgtct cttcatgt gtccctggc cgtcacctg acctgacacc gtagaggagca ccatctatg gtggagcccc gcaaccgtc ctaccttc tactctgt gggagggctg gcccgagaag ggcatacgca ggggtctacac cactgtctc ttctgcaca ttaactgg gccgttggcg ctactgtgg tcatgtacg ccgtalcggc cgtcaagtct gccaagcccc gggcccgccg cccggggcg aggaaggctg ggaacccgtc gcatcggcg gcaaggcgcg cgttggcac algctggta tgggtggcgt gtttcacg ctgtctggc tgcctgtg ggcgtgtg ctgtcatg actiagggca gctcaggcg ccgcagctg acctgtgac cgtctacgc ttccctg cgcactggct ggcctctc aacagcagcg ccaacccat catctagg tacttaacg agaactccg ccgcggctc caggccgctt ccgcggccg cctctgccc cgcctgtcg ggaagccaca ggaagccctac tccagcggc ccggcggggt tctgcacagg cgggtctgctg tgggtggc gccagcgac tccgggtctg cctctgagtc gggccctagc agtggggccc ccaggcccg ccgctcccg ctgcgggaag ggcgggtggc tcaccagcg tggccaggg aaggcctg ctgtccac ctgcccctca ccatccagc ctgggatalc tga MEGPSQPPN SSWPLSQNGT NTEATPATNL TFSYYQHTS PVAAMFIVAY ALFLLCMVG NTLVCFIVLK NRHMTVTNM FILNLAVSDL LVGFCMPTT LVDNLITGWP FDNATCKMSG LVQGMVSAS VFTLVVIA VE RFRClVHPFR EKLTLRKALV TIAVIWALAL LIMCPSA VTL TVTREEHFEM VDAARNRSYPL YSCWEAWPEK GMRRVYTTVL FSHYLAPLA LIVVMYARJA RKLCQAPGPA PGGEAAADPR ASRRRARVVH MLVMVALFFT LSWLPLWALL LLID YGQLSA POLHLVTYYA FPFHAWLAFF NSSANPIYG YFNENFRGF QAAFRARLCP RPSGSHKEY Y SERPGGLLHR RVFVVVRPSD SGLPSESGPS SGAPRPGRLP LRNGRVAHHG LPREGPGCSH LPLTIPAWDI agatactgat actttctc caaacagcat aagaagtgat tgaagccaca gatactgaa ggaagggtc cctcgagltg tgggtggag agataatca ccagtcacag actatgacc cgtctgtc tgtcagtc aggggaaatg aagttggag tgcgtggct cattttc ttaccctca ctgacggcca cgggtggctc tgggggaaa atgattgacat caaaacaaa aagaagactca ttgtgataa gaaaaacat ctggcccaag tgaagataa tgaagctg ctcaaggta cctatagaga ttccaaggag aagaagat ttgagaaatt tctgaagctc tgaagctc catattatg gtcacagg ctaattagaa ttacagagc aaaggctacc acagactgca acagctgaa tggagctc cagtgtact gtagagacag ctacacctg ttctcct catgcttga tcccagaac tgcacctc acacggctgg agcactcca agctgtgaaat gtcactcaa caacctcagc cagaagtga attctgtga gagaacaaag atttgggca cttcaaat taatgaaag ttcaaatg acctttgaa ttactct gctatact ccaatatgc aaatggaatt gaaattcaac ttaaaaaagc atatgaaaga attcaaggt ttgagtcgggt tcaaggcacc caattcgaa tgcactct gtgcccgaag ttggagtgca algggcacaat ctaggctcac tgaaccccg caacctg ctaccgggt caagagatc cctgtctca gctcccaag tgcgtgaaat tacaggcacc tgcacaca tccagctaac tttttgta tttttag agacagggt taccatgt ggcacacatg gttcaact cttgactca ggtgtccg ctgctcggc cccaagtg ctgggttac agcagagc caccacat ggcctaggac cttcaatatt ggaagcalt ctaaaactg tgggtcagtg agtagaacta caaaacata gcagtagggc agaaactga aagaaggcag gtagatcagg tgaagtga tgggaaaaag tgaagggtgg gataaggggt tgcgggtgt cgaagggtgt atttctct tcaagacta caggagat gatgctcat aatcggagc cagaagtggg gcttgggtg agatacttt gcacagataa catgtataa tcalgtca aaaccagta gtcattgtt acagcaata aagaatatt tggtaata aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaa </p>	P	Homo sapiens
659	194319	G Protein-Coupled Receptor FLJ22684	NM_025048		<p> agatactgat actttctc caaacagcat aagaagtgat tgaagccaca gatactgaa ggaagggtc cctcgagltg tgggtggag agataatca ccagtcacag actatgacc cgtctgtc tgtcagtc aggggaaatg aagttggag tgcgtggct cattttc ttaccctca ctgacggcca cgggtggctc tgggggaaa atgattgacat caaaacaaa aagaagactca ttgtgataa gaaaaacat ctggcccaag tgaagataa tgaagctg ctcaaggta cctatagaga ttccaaggag aagaagat ttgagaaatt tctgaagctc tgaagctc catattatg gtcacagg ctaattagaa ttacagagc aaaggctacc acagactgca acagctgaa tggagctc cagtgtact gtagagacag ctacacctg ttctcct catgcttga tcccagaac tgcacctc acacggctgg agcactcca agctgtgaaat gtcactcaa caacctcagc cagaagtga attctgtga gagaacaaag atttgggca cttcaaat taatgaaag ttcaaatg acctttgaa ttactct gctatact ccaatatgc aaatggaatt gaaattcaac ttaaaaaagc atatgaaaga attcaaggt ttgagtcgggt tcaaggcacc caattcgaa tgcactct gtgcccgaag ttggagtgca algggcacaat ctaggctcac tgaaccccg caacctg ctaccgggt caagagatc cctgtctca gctcccaag tgcgtgaaat tacaggcacc tgcacaca tccagctaac tttttgta tttttag agacagggt taccatgt ggcacacatg gttcaact cttgactca ggtgtccg ctgctcggc cccaagtg ctgggttac agcagagc caccacat ggcctaggac cttcaatatt ggaagcalt ctaaaactg tgggtcagtg agtagaacta caaaacata gcagtagggc agaaactga aagaaggcag gtagatcagg tgaagtga tgggaaaaag tgaagggtgg gataaggggt tgcgggtgt cgaagggtgt atttctct tcaagacta caggagat gatgctcat aatcggagc cagaagtggg gcttgggtg agatacttt gcacagataa catgtataa tcalgtca aaaccagta gtcattgtt acagcaata aagaatatt tggtaata aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaa </p>	A	Homo sapiens

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	MKVGVLWLIS FFFTFDGHGG FLGKNDDIKT KKLIVNKKK HLGPEVEYQL LLQVYRDSK EKRLRLNFK LKPPLLWSH GLRIIRAKA TTDCNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCHEHLNLL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SATYSKYANG IEIQLKKAYE RIQGFESVQV TQFRMSLLSP KLECNGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	atgagtctt gcaactaac acatgccacc ttgtgtctta ttggtatccc aggalltagag aaagccatt tctgggttg cttcccctc ctttcatgt algtatggc aatgtttgga aactgcatcg tggcttcat cgtaaaggagc gaacgagoc tgcacgtcc tgatcacct ttctctgca tgcctgagc cattgactg gcctatcca catccacct atgcacctt ctggccttt tctggtttga ttccggagag atagcttg aggcctgt taccagatg ttctttatc atgcctctc agccatigaa tccacatcc tgcctggccat ggccttggac cgtatgtgg ccacttgcca ccactgcgc calgcgacg tgcctacaac taccatgaac gccagatg gcactgggc tgggtccgc ggalccctt tttttccc actgctctg ctagatcaagc ggcctggcctt ctgccactcc aatgctct cgactccta ttgtgtccac cagatgtaa tgaagtggc ctagcagac acttgccca algttggtata tggcttact gccatcgc tggatggg cgtggacgta algtcatct ccttgccia ttctgata atagaaacgg tticgcaact gccctccaag tcaagcggg ccaaggcct tggaaacct ggtcacaca ttgggtgggt actgcttc tatlgtccac ttatggcct ctagtltga cacogcttg gaaacagcct tcatccatt gtgcgtgtg tcaagggtga catlaccatg ctgctgctc ctgtcatcaa tccatcatc talgggcca aaaccaaca gatcagaaca cgggtgctgg ctagtgaac gatcagctg gacaaggact tgcaggctg gggaggcaag tga MSSCNFTHAT FVLIGIPGLE KAHFVVGFP LLSMYVVMFMG NCIVFIVRT ERSLHAPMYL FLCMLAADL ALSTSTMPKI LALFWFDSRE ISFEACLTM FFIHALSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGINAVVR GSLFFPLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVYGLT ALLVMGVDV MFISLSYFLI RTVLQPSK SERAKAFGTC VSHIGVLA FVPLIGLSV HRFGNLSLHPI VRVVMGDIYL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGKK acttttca tgtctctt ggttgaaga tgaaggaatt gaaagcagag tatgcacct ttattaggag attcaactg catctactg gattagctc aaagctcta aatataaag acatccatct gacagatcac tgaaggagag actgtttt cgttttga alagttccg attaaactt ttatgtcaag aagaaaagaa gctagtatt tctaccaccag ggttggattt ggttggc tccactgg cttctggcg tgcctggaaac ctatgggtgc tgggtgctg cgtgtgtgga ctactgactg gcatcattt gggactgggc atcctggagga tttggatcag galccaaaga ggaatactia ctctcaltc aagcacctt acagatctt gcaggaaatgg tggaaacctgg gaaaatggca gatgtatttg tacagaagag tggaaaggac tgaatgtatc aatgtctaat ttgttgaaa atagtactta tatgggtttt acttttgcca gaatccaggt gggcagatat ggaacatct tgcacacatg tggcaaggat actccaaatg cggggcaatcc aatggcagtc cgtgtgtgca gtctctct alagggagag atagaattac aaaaagtgcac aataggaaat tgcaltgaaa atctggaaac cctggaaaag cagggtagagg algtcacagc accactaat aacattct ctagaagcca gatituaaca tctgtatgcca ataaatlaac tgcitgaagc altactatg ctacgtgagt ggttggagag alattcaaca ctccagaaa tgcctacct gaggcaaga aagtgtccat agtaacagtg agtaactcc tagatggcag tgaatgtgct ttcaaaagag ttgctgtctac tgcataatgat gatgccctta caactgtat tgaagcaatg gaggctt cctgtctt gggtaataca tcatgtgtgg aacctaaac agcaatagag tcaagaaatt tctctcaga aatgcgggtg gggcctcaaa algttgcct cctgtgagc aaaggagctia gcagctct agttctagt tcaactia tacaacaaa tgggtatggc cttaaccagc atgcacagac tgaagctcag gctgtctia atatgacgaa aaattacacc aagacalgcg gctttagt ttaicaaat gacaagctt tcaatacaa aacttttaca gctaaatcgg attttatga aaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct cttgtgacat ggtttagt ccaaaatga accaaaaaga attcaactc tatctctatg cctgtgtctia tgggaatttg tcaagcaagg acttgggacac atatggctgt caaaaagaca agggcactga tggattctcg cgtgcccgt gcaacacatc tactaatit gctgtatua tgaatuaa aaaggattat caalatcca	A	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	ERSLHAPMYL FLCMLAADL ALSTSTMPKI LALFWFDSRE ISFEACLTM FFIHALSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGINAVVR GSLFFPLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVYGLT ALLVMGVDV MFISLSYFLI RTVLQPSK SERAKAFGTC VSHIGVLA FVPLIGLSV HRFGNLSLHPI VRVVMGDIYL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGKK acttttca tgtctctt ggttgaaga tgaaggaatt gaaagcagag tatgcacct ttattaggag attcaactg catctactg gattagctc aaagctcta aatataaag acatccatct gacagatcac tgaaggagag actgtttt cgttttga alagttccg attaaactt ttatgtcaag aagaaaagaa gctagtatt tctaccaccag ggttggattt ggttggc tccactgg cttctggcg tgcctggaaac ctatgggtgc tgggtgctg cgtgtgtgga ctactgactg gcatcattt gggactgggc atcctggagga tttggatcag galccaaaga ggaatactia ctctcaltc aagcacctt acagatctt gcaggaaatgg tggaaacctgg gaaaatggca gatgtatttg tacagaagag tggaaaggac tgaatgtatc aatgtctaat ttgttgaaa atagtactta tatgggtttt acttttgcca gaatccaggt gggcagatat ggaacatct tgcacacatg tggcaaggat actccaaatg cggggcaatcc aatggcagtc cgtgtgtgca gtctctct alagggagag atagaattac aaaaagtgcac aataggaaat tgcaltgaaa atctggaaac cctggaaaag cagggtagagg algtcacagc accactaat aacattct ctagaagcca gatituaaca tctgtatgcca ataaatlaac tgcitgaagc altactatg ctacgtgagt ggttggagag alattcaaca ctccagaaa tgcctacct gaggcaaga aagtgtccat agtaacagtg agtaactcc tagatggcag tgaatgtgct ttcaaaagag ttgctgtctac tgcataatgat gatgccctta caactgtat tgaagcaatg gaggctt cctgtctt gggtaataca tcatgtgtgg aacctaaac agcaatagag tcaagaaatt tctctcaga aatgcgggtg gggcctcaaa algttgcct cctgtgagc aaaggagctia gcagctct agttctagt tcaactia tacaacaaa tgggtatggc cttaaccagc atgcacagac tgaagctcag gctgtctia atatgacgaa aaattacacc aagacalgcg gctttagt ttaicaaat gacaagctt tcaatacaa aacttttaca gctaaatcgg attttatga aaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct cttgtgacat ggtttagt ccaaaatga accaaaaaga attcaactc tatctctatg cctgtgtctia tgggaatttg tcaagcaagg acttgggacac atatggctgt caaaaagaca agggcactga tggattctcg cgtgcccgt gcaacacatc tactaatit gctgtatua tgaatuaa aaaggattat caalatcca	P	Homo sapiens
663	194743	FLJ14454	NM_032787	acttttca tgtctctt ggttgaaga tgaaggaatt gaaagcagag tatgcacct ttattaggag attcaactg catctactg gattagctc aaagctcta aatataaag acatccatct gacagatcac tgaaggagag actgtttt cgttttga alagttccg attaaactt ttatgtcaag aagaaaagaa gctagtatt tctaccaccag ggttggattt ggttggc tccactgg cttctggcg tgcctggaaac ctatgggtgc tgggtgctg cgtgtgtgga ctactgactg gcatcattt gggactgggc atcctggagga tttggatcag galccaaaga ggaatactia ctctcaltc aagcacctt acagatctt gcaggaaatgg tggaaacctgg gaaaatggca gatgtatttg tacagaagag tggaaaggac tgaatgtatc aatgtctaat ttgttgaaa atagtactta tatgggtttt acttttgcca gaatccaggt gggcagatat ggaacatct tgcacacatg tggcaaggat actccaaatg cggggcaatcc aatggcagtc cgtgtgtgca gtctctct alagggagag atagaattac aaaaagtgcac aataggaaat tgcaltgaaa atctggaaac cctggaaaag cagggtagagg algtcacagc accactaat aacattct ctagaagcca gatituaaca tctgtatgcca ataaatlaac tgcitgaagc altactatg ctacgtgagt ggttggagag alattcaaca ctccagaaa tgcctacct gaggcaaga aagtgtccat agtaacagtg agtaactcc tagatggcag tgaatgtgct ttcaaaagag ttgctgtctac tgcataatgat gatgccctta caactgtat tgaagcaatg gaggctt cctgtctt gggtaataca tcatgtgtgg aacctaaac agcaatagag tcaagaaatt tctctcaga aatgcgggtg gggcctcaaa algttgcct cctgtgagc aaaggagctia gcagctct agttctagt tcaactia tacaacaaa tgggtatggc cttaaccagc atgcacagac tgaagctcag gctgtctia atatgacgaa aaattacacc aagacalgcg gctttagt ttaicaaat gacaagctt tcaatacaa aacttttaca gctaaatcgg attttatga aaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct cttgtgacat ggtttagt ccaaaatga accaaaaaga attcaactc tatctctatg cctgtgtctia tgggaatttg tcaagcaagg acttgggacac atatggctgt caaaaagaca agggcactga tggattctcg cgtgcccgt gcaacacatc tactaatit gctgtatua tgaatuaa aaaggattat caalatcca	A	Homo sapiens

664	194743	FLJ14454	NP_116176.1			<p>aatcaattga catattatcc aacgttggat ggcacatgic tgnacttggc cggcctctca cagttatatt tcaattatgic accaggaanaag teagaaaaac ctacgaacc tgggttttgg tcaatctgg catacaatg ttgatttca accctctt tggtttggga attgaaaaact ccaataagaa ctgcagaca agtgaatggg acalcaataa tatttgactt gacaataatg acataccacg gacagacaccc attaaalcc cgaalcccat ggcacatgag atggccgct tactgcacta ttcttgta gtagacattia cctgggaacgc actcagcgct gcacagctct attaccttct aataaggacc atgaagccic ttctggga ttatcttct ttaattctat taattggatg gggagttocca gctatagtag tggctataac agtgggagt attttatcic agaatgggaa taatccacag tgggaattag actacggga agagaaaaic tgcggctgg caattcaga accaatggg gttataaaa gtcgcctggt ggggtcaltc atcgtactc taacallat cctcalcagc aatgttgta tttttatc aalcagtc aagtgctgt ggaagaaataa ccaagaaacgc acaagcaca aaaaagtllc atccatgaag aagattgta gcaattatc ttttgaggt gttttggaa ttaccitggt ttagcatatc ctagcatatc ttaattgatga tagcatagg atcgtctca gctacattt cggccttcc aacatacac agggagtgca aattttatc cgtacatc ttagaaca agcttccag agtgaagctt ccaaggtgt gatttgcta tgcctatg gggagaaaggaa gctatgctt tcaatgctt ggccgaggtt gctgtgaaag atgtataat tctcaggtc atggcaacc ttacatgac gctttaggt actggaaacc tctcgagta ctgaggaat cacacictt gaaagtga aagcaaggga aagcatatg acagtataac ttaccitggt tggctttt aatcaacctg ttgagttt atctgttct cctcttatt tccagctct ctgagaaagt cttctcaat gttttgct caggattaa aattagataa aacctgtgt ttattat tccgcataat ggacttgga gttttctat tttaaalag atttgaat gaataagggt aagaattca cacaacatc aagagtacca ttttctcta taltgttaa tcttgtag acatttgc aaaaatgtag aacctatac aaattcttt acaagtact alaaaggaca caaagagaaa actttacctt cgaagacaaa algactctc algaaagtg tggggggt tgcgttag tataaact tgaacctg</p>	P	Homo sapiens
665	194745	G Protein-Coupled Receptor SLT/MCH2	NM_032503		A	<p>MASCRWNLR VLVAVVGGLL TGIILGLIW RIVRIQRGK STSSSTPTE FCRNGGTWEN GRCICTEWEK GLRCTIANFC ENSTYMGFTF ARIPVGRYGP SLQTCGKDTN NAGNPMVRL CSLSYGEIE LQKVTIGNCN ENLETKQV EDVTAPLNNI SSEVQIL TSD ANKLTAENIT SATRVVGQIF NTSRNASPEA KKVAIVTSQ LLDASEDAFQ RVAATANDDA LTLIEQMET YSLSLGNQSV VEPNIAQSA NFSSENA VGP SNVRSVQKG ASSSLVSSST FIHTNVDGLN PDAQTELQVL LNMTKNYTKT CGFVYQNDK LFQSKTFTAK SDFSQKIIS KTDENEQDQS ASVDMVFSK YNQKEFQLYS YACVYWNLSA KDWDYGCQK DKGTDGFLRC RCNHTTNFAV LMTFKDYQY PKSLDLSNV GCALSVTGLA LTVFQIVTR KVRKTSVTWV LVNLCISMLI FNLLFVFGIE NSKNLQTS GDINNIDFN NDIPRTDTIN IPNPMCTAIA ALLHYFLLVT FTWNALSAAQ LYLLIRTMK PLPRHFILFI SLIGWGVPAI VVAITVGVTY SQNGNPNQWE LDYRQEKICW LAIPEPNGVI KSPLL WSFIV PVTILISNV VMFISISIKV LWKNNQNLTS TKKVSSMKKI VSTLSVAVVF GITWILAYLM LVNDDSRIV FSYIFCLFNT TQGLQIFILY TVRTKVQSE ASKVLMLLSS IGRRLSLPSV TRPRLRVKMY NFLRSLPLTH ERFRLLTSP STEEITLSES DNAKESI</p> <p>cggcccgccg cagggttgc gaggcacc ca gctcttaa aagagcaga cgcaccgat gctcggatg gatgaatgc aaagctttaa tccctggaaa ggcacagaac aatgaatcca ttatgatc ctgttggaa cactctgca gaactttaa acaatctc gaataaag ttgtctat aaactgccg tgggtggat acagatcc tcccttcat tcccttcat ctatctgca aactctggt tggctgatt tggcaaat ctatgat tcaataat aagatcagg aaaaaaacg tccctgacat ctatctgca aactctggt gtttggggg cctctgca gggtcacata gttggaatg cttttctt tcaacaatgg gcccagggg gagatgggt gtttggggg cctctgca ccatcatc atccctggat acttgaac aatttgcctg tagtccatc algactgaa tgaatgga caggtactt gccctctg</p>	A	Homo sapiens

666	194745	G Protein- Coupled Receptor SLTMCH2	NP_115892.1	<p>aaccatttcg actgacacgt tggagaacaa gglaacagac calccggalc aatttgggcc ttggggcagc ttccittalc ciggcatttc cttcttgggt clactcgaag gicalcaaat tlaaagacagg ttttgagaggt tttgtttttg atttgacatc cccigacgat gtacttgggt atacacttta ttgacgata acaacttttt ttctccctct acccttgatt ttgtgtgct atattttat ttatgtctat actttgggga tttatcaaca gaataaggat gccagatgct gcaatccagc tttaccacaaa cagaragtga tgaagtggac aaagatgggt cttgttctgg tggtagtttt tatcttgggt gcttcccttt atcatggtt acaacttggg aactacaga tggacaagcc cacactggcc ttctatggg gttattacct cttcatgtt ctcagctat ccagcagcag catlaacct ttctctaca tcttctctgag tggaaatttc cagaaacgic tgcctcaaat ccaaaagaaga gcgacttgaga aggaataaca caalatggga aacacttga aatcacacti ttaggaaagt acatggatca ccatggatct agacatgatt gttacttta ctgttattat tagaaaggc aggtgtacccg ataattttat gccattttt cttgttact ttgtacttt agcagcattgg aagaagaagtg taacatgca aatacaatga gcttaatalg ctaactgta aaaaaaaaaa aaaaaaaaaa</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ccacacac agggaccgca tctgggtga tgaagtga cagcagcag cttgggtgagt gctaacgctc agataagcat ctgtgccatt ttggggactc cttggcgtc tctgaccgg gacattgct ctgtccccc cttgtacaaac gggctgtgct ggcgatcga gggggacacc atctccagg tttatccggc gctgtcatt ttggcctttg tcttggggc actaggcaat gggttggccc ttgttgggtt cttgtccac atgaagacct ggaagccag cactgtttac ctittcaatt ttggcgtggc tgaatttctc cttatgact gcttgccttt teggacagc tattactca gacgttagaca ctgggtcttt ggggacalc cttgccagt ttgggtcttc acgttggcca tgaacaggc cggggagcgc gtttcttta cggttgggtg cttgggacagg tattcaaaag tggccaccc ccaccagcg ttgaacacta tctccaccg gtttggcggct gggcatgct ctaccctgtg gggccctggc atccitgggaa cagtgtatc ttgttggag aaccttct gctgtcaaga gacggcgcgc tccgtgaga gcttcatat ggaagtggcc aatggcctgg atgacatcat gttccagctg gatttctta tggccctgg calcatcta ttgtctct tcaagattgt ttggagcctg aggcggaggc agcagctggc cagacaggct cggatgaaga agggcagccc gttcatcag ttgttggcaa ttgtgtcat cacatgtac ctgcccagcg ttgttctag acttatct cttggagcgg tggccctggg tggcctggag tggcctggat cctctgtcc atggggccct gacataacc ctacgttca cttacatgaa cagcagctg gttccctgg gtttatttt ttcaagcccc tctttccca aatctaca caagctcaaa atctgcagc tgaaccccaa gacccagga cactcaaaa cacaagggc ggaagagatg ccaatttga acctggctg caggagtgc atcagttgag caaatgatt ccaaaaggc tctgtaggc aatggatcc ccacattgtt gattggcact gaacagcag accaacaac ctgaggaga tagagtggtg acttagaatt aactgtgct aagggtggg gggctttgaa aatggccacc ccttttcta ttgaagaagc gcttctgca calgaactgc atcttctca ttcttggga aatgaattc acacaact accuttigg gagggtccag tt</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1	<p>MYNGSCCRIE GDTISQVMPP LLIVAFVLGA LGNGVALCGF CFHMKTWKPS TVYLFNLAVA DFLLMICLPF RTDYLRRRH WAFGDPCR V GLFTLAMNRA GSIVFLTVVA ADRYFKVVHP HHA VNTISTR VAAGIVCTLW ALVILGTVYL LLENHLCVQE TAVSCSEFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQQLA RQARMKKATR FIMVVAIVFI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPFKFYN KLKICSLKPK</p>	Homo sapiens

[illegible]

671	194858	G Protein- Coupled Receptor LS194858	LG94710	QGLFIFL FHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV ttagtcaag tcaaggcga cactgttgc gctgttggg tggtagcaa tcttggggg gggactgtcc cgggaggctc ttcccacag cccctgcagg cacttttggg cggctgtccct ccaggggggt gtagtcgt gtagccacg cccatggct acgggcacgt cgtgtgact gggacttct agggagagga gggacaacag tttccacag cccagtggc ggcgtgtc ataggccagg actgagagga caggtgtggc cactgtggg cccacagaca gcccgaagag cagcaltggc ccagccgtg cccttgcgt cctccagta agggccggg caggccggg gggctcagc cggcacact cccgtccag ccggcagalg tcctgcagct ggggtggg agtggccag cggccggc agaggaggg agcagccacc ccggccgggca gcaaggagcc atagacttg aggtacaggt aggggggctgg gtagtagcc tgggagctgc agtgggacc aggggtccag tggttccac ccaggccggg cagctgggca aggtgaggg gaccagccca ggtgagggc agggccagcc gaaigtcc agggggctgg agtggctca ggaactgcat gtagctcc cgtgaccca gcaagaggtt gggcagcagg gaggaggaagg agaatggg agccaagtag acgaggaggc aggaacagta acccgccga ctcgttcc acagccctgg caatggggc aatggccagc ccgtgagcag ccagccagc agtaggctca ggaagagca gcccagcgtt gggctggcga gggccggc caggccalg ccaggggcta gggcaggtt cgggtgtg atgaggctg ccaggccag gggagggccc aagggccct tgggaatggg gctggccacc tggccagtc tgggtgggt cactgtgt cggggcag gggagcttc gaggccagc cggcagc gctggccacc tggccagtc tgggtgggt cactgtgt cggggcag gggagcttc gaggccagc cggcagc QDTRHGNRC RAGCSNLT RKAQAQAIP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIIT ANLLALGIA GTAAACAATCW LLLPETAGW AAHSGIATL PGLWNQSRG YWSCLLVLA PNFSFLSLA NLLVHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPLYLEVY GLLPVGAA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaga tcatgggtc cagagcact gctagtag tgggggggt ttgactaa tgtattcc atgttagcac agaatgtg tggcagtaga gagggtcag gcttagagt cagcaagaac tggattcaa actggattg aggacccca cctttgata ggtgactat tctgtgag tctgtgact gcccctta aatgaggag taaatccac algggagggt gggggggaga atcagagat atcagcgtg gtagcaca tgggttctg ttccagggtc accagactgg ggtttctgag catggaltca accatccag tctgggtac agaatgaca ccaatcaac gacgtgagga gactcttgc tacaagcaga ccctgagctt cagggggc agtggcatg ttccctgt cggctgaca ggaagggcgg tggctcgtg gctcgtggg tggccalg gcaggagc tgttccat taccctca accgtgctc gggccgact ccttccca gggccacat tatalgtc ccgttagcc tcatat atccatcc atctccaaa tctcagtc tggtagacc ttccctact ttataggct aagcagctg agcgccatca gcaaggag cgtgtgtcc atctgtgg ccactggta ccactggc cggccagat accgtgalt ggtcatgt gctgtgtt gggccctgt cctgtgctg agtatctg agtggagt cgtgactt cgttttagtg gttcgtatc tgtttgtt gaaagctag attacat aatcgtgt cgtgttt ttgtgtgt tctgtgtt tccagccgtg tccgtgtg caggaltic tgggtatcc ggaagalg cgtgacagg cgtatgta ccatctct cagagctg gttctctc tctgtgtt ggccttggc attcagggg ccgttttc caggaltca cgtgttggc aggtctatt ttgtcagtg catctgtt ccatttct gtcgtctt aacagcag ccaacctat catttact tctgtgtt ccttagga gctgcaaat aggcagacc tgaagctgt tctcagagg gctgtcagg acacgcctga ggtggatga ggtggaggtt ggttccca ggaacccg gagctgtg gaaagcagtt ggaagcagtt ggaagaaact cgtccctgt agacagact ttgagagcaa tctgtccctg ccacctga caatatat callttct agcctcgt ctagaagt	A	Homo sapiens
672	194858	G Protein- Coupled Receptor LS194858	ENSP00000053	QDTRHGNRC RAGCSNLT RKAQAQAIP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIIT ANLLALGIA GTAAACAATCW LLLPETAGW AAHSGIATL PGLWNQSRG YWSCLLVLA PNFSFLSLA NLLVHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPLYLEVY GLLPVGAA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaga tcatgggtc cagagcact gctagtag tgggggggt ttgactaa tgtattcc atgttagcac agaatgtg tggcagtaga gagggtcag gcttagagt cagcaagaac tggattcaa actggattg aggacccca cctttgata ggtgactat tctgtgag tctgtgact gcccctta aatgaggag taaatccac algggagggt gggggggaga atcagagat atcagcgtg gtagcaca tgggttctg ttccagggtc accagactgg ggtttctgag catggaltca accatccag tctgggtac agaatgaca ccaatcaac gacgtgagga gactcttgc tacaagcaga ccctgagctt cagggggc agtggcatg ttccctgt cggctgaca ggaagggcgg tggctcgtg gctcgtggg tggccalg gcaggagc tgttccat taccctca accgtgctc gggccgact ccttccca gggccacat tatalgtc ccgttagcc tcatat atccatcc atctccaaa tctcagtc tggtagacc ttccctact ttataggct aagcagctg agcgccatca gcaaggag cgtgtgtcc atctgtgg ccactggta ccactggc cggccagat accgtgalt ggtcatgt gctgtgtt gggccctgt cctgtgctg agtatctg agtggagt cgtgactt cgttttagtg gttcgtatc tgtttgtt gaaagctag attacat aatcgtgt cgtgttt ttgtgtgt tctgtgtt tccagccgtg tccgtgtg caggaltic tgggtatcc ggaagalg cgtgacagg cgtatgta ccatctct cagagctg gttctctc tctgtgtt ggccttggc attcagggg ccgttttc caggaltca cgtgttggc aggtctatt ttgtcagtg catctgtt ccatttct gtcgtctt aacagcag ccaacctat catttact tctgtgtt ccttagga gctgcaaat aggcagacc tgaagctgt tctcagagg gctgtcagg acacgcctga ggtggatga ggtggaggtt ggttccca ggaacccg gagctgtg gaaagcagtt ggaagcagtt ggaagaaact cgtccctgt agacagact ttgagagcaa tctgtccctg ccacctga caatatat callttct agcctcgt ctagaagt	P	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	tcaggccag gataagtaga tcatgggtc cagagcact gctagtag tgggggggt ttgactaa tgtattcc atgttagcac agaatgtg tggcagtaga gagggtcag gcttagagt cagcaagaac tggattcaa actggattg aggacccca cctttgata ggtgactat tctgtgag tctgtgact gcccctta aatgaggag taaatccac algggagggt gggggggaga atcagagat atcagcgtg gtagcaca tgggttctg ttccagggtc accagactgg ggtttctgag catggaltca accatccag tctgggtac agaatgaca ccaatcaac gacgtgagga gactcttgc tacaagcaga ccctgagctt cagggggc agtggcatg ttccctgt cggctgaca ggaagggcgg tggctcgtg gctcgtggg tggccalg gcaggagc tgttccat taccctca accgtgctc gggccgact ccttccca gggccacat tatalgtc ccgttagcc tcatat atccatcc atctccaaa tctcagtc tggtagacc ttccctact ttataggct aagcagctg agcgccatca gcaaggag cgtgtgtcc atctgtgg ccactggta ccactggc cggccagat accgtgalt ggtcatgt gctgtgtt gggccctgt cctgtgctg agtatctg agtggagt cgtgactt cgttttagtg gttcgtatc tgtttgtt gaaagctag attacat aatcgtgt cgtgttt ttgtgtgt tctgtgtt tccagccgtg tccgtgtg caggaltic tgggtatcc ggaagalg cgtgacagg cgtatgta ccatctct cagagctg gttctctc tctgtgtt ggccttggc attcagggg ccgttttc caggaltca cgtgttggc aggtctatt ttgtcagtg catctgtt ccatttct gtcgtctt aacagcag ccaacctat catttact tctgtgtt ccttagga gctgcaaat aggcagacc tgaagctgt tctcagagg gctgtcagg acacgcctga ggtggatga ggtggaggtt ggttccca ggaacccg gagctgtg gaaagcagtt ggaagcagtt ggaagaaact cgtccctgt agacagact ttgagagcaa tctgtccctg ccacctga caatatat callttct agcctcgt ctagaagt	A	Homo sapiens

674	194878	MrgX3 G Protein-Coupled Receptor	AAK91806.1	MDSTIPVLGT ELTPINGREE TPCYKQTLST TGLTCTIVSLV ALTGNAVVLW LLGCRMRRNA VSIYILNLVA ADFLSLGHI ICSPRLINI RHPISKILSP VMTPPYFIGL SMLSIASTER CLSILWPIWY HCRPRYLSS VMCVLLWALS LLRSILEWME CDFLFGADS VWCETSDFIT IAWLVFLCVV LCGSSLVLLV RILCGSRKMP LTRLVVTLL TVLVFLLCGL PFGIOWALFS RIHLDWKVLV CHVHLVSIFL SALNSSANPI IYFFVGSFRQ RQNRQNLKV LQRALQDTPV VDEGGGWLPQ ETELESGSRL EQ	P	Homo sapiens
675	194903	G Protein- Coupled Receptor GPCRB3	LG100657	tcaggttggag ccgcagagccg tctgtatgtc ctgaalggag gccctggaaagt gctctgtgct gttgaggtct ggccggcgaga ggatcacgta gcatltagc gcactltagc agaaaatacc caccgaagcc gctgtctagc cgtctcagcc cagccatcat gttggccgca ggcaggtlact tgcctgtcga gacgtctggcc gttgttgaaga aggcgatoca ggacacgaag ttgaagagca ggtctgaagt gacacattg gctctgttgt agttcttctg caagtctta cccaggttagc tgcaggtcaaa ggccacttga tggaggttggc cattgttagag gaagggccagt algaagccca gggaagtgtgt cctgtgtcac tcaagcalca ccagatggggg gaagcgtctgg tattccctag cagtcaggttgg ggtccacacc accagcccaag ttgaacagat aagcagcttgg gccgcttagc tgalcalcac aaacaggcca gcaaccgttgg ttggaccca ggcgttggtag aatgttagta ccttgggttga aaacttgaag atgatgattia gtttggatga gccaactgtc aggcagggaca gggaagtaggt gaacaccaag gcaacaccaag ccaagcagctgg ccctgtctgg ggccctgtgt gttcccaaa gaagcccaatg aggtctgtccac taccgtctgc caggttggccc agcataagaa agcacaggcc ggccctgtgt gacatccca caggttgggttgc tgggttccag gcaacaccaag cagcaggtccc aagcagctggc agcagcagca gctgtttagc tgcacagc acccaagagg tttgtctcag caaagccaaa aacacacag tgcgtggggaa gcaaggtctgg cttccctcag gttgccac tttctcca caaggttggc atctgttagag gcttgaagag gaagggcccaag aaggttctctg agagccagat gagcagagta gggaataggaa ataggggccct gcaatattt gggaagtattg taccaggggca gctagactat actagtcata gttgggttgg gggttggccgg agtggggccct ggagggccagc atttctcaa aatgctgtgt ttaatacag acttgggaga cacacaggtc ggttctgtat ggtctcagat cccatggggg ttttgcacac cctagggggg accttaacct ggtagctctg cccacatac agagaggtta cgtatctgag ggagcagctt gttcccaag gttggggggg gttggggggg ctctggcag catttccag aaccatttc ctgagctgt gctctgtgt tttctgtgt cctgtccctc tggagcaga aggggaagtat tctgtccct acagagatgg tgaagggaaa gaatgtggcc cctgggacac aactaaggac ctggagctct agctacata ttgtctct gttctgacc ttgcatctt ggatgggggaa tgcgtttt tttctgtctc cagagacagct agtattctga ttacaggccaa gctgttcaag gtagctagctg tcttggcat gggtcaacaga agggcagatga gggaacagggg gcaacaaagggt aacaatagct atatcattt agagaaaggag gttgaattca ggalagact gctttgttag gtaggttgtat gacagctctc taacagagga cacacctag tcaagggtt tcagttggct aattcttct ttttctt ttttggaga cagagtttt cttgttgc caggtctga gttcaatgtt gcaatctgg ctacttcaa cctcggctc ccgggttcaa gcaattctc tgcctcagcc tcccgagtag ctgggaattac aggcacagc cacacggccc ggataactt tttgtatt ttgttagaga tgggggttca ccaattgtt caggtctgtct tgaactct gacctcaggt gataccca cctcggctc ccaaaagtct gggaattacag gttgttggcca cctcgtgggt caagtgtatc tttttgggg ggacgaattc tgcgtttgtt gttcaggtctg gaatgtcat tgggtctcag caacctcc cttctgggtt caagtgtatc tctgtctca gctcggag tagctgggt taggcagc cgcacaca cccagctaa cccagctaa tttttatt ttgttagag atgggttgc accatgttgg ccaggtctgt ctgaactcc ggaactcaa tgaacccc ggctcagct cccaaaggcc tgggtattaca ggcatggagc accggaccca gttgtgtatt ctctgtatca gaattctgc tgggttagcag tgccttcaa cctgaagcta acttggcagc cagtgtacttgg gcttgggtt tgggtcaggg cacttggggg ccaagggggg ccttccct accgtgtcagc ccccgggggt gcttgggttgc tgcctgtctc catggccac tcaacctc tttgttagag gtttcccgcc ccaaggggca cacactcaa gtagcagta tgggaacccc taacctctg ctgttggccct tcaagtagat cgttgggaaca cacagactia ggcacttga agtagccaga gggtccacac gtagggggccc aagttcaaggg acagctcaca ttttgaacag aaacagagat ctctgtcat ctgcccctcag ggtctcactcc caggggtcaggg cccctgtctg tttgtacttc cgtcccgaggg calcttgcaca	A	Homo sapiens

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn
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VHISYAASSE TSVKRLQYPS FLRTIPNDKY QVETMVLTLQ KFGWTWISLV
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RECQAFMAHT MPKLKAFMS SAYNAYRAY VVAHGLHQLL GCASELCSRG
RVYPWQLEQ IHK VHELLHK DTVAFNDNRD PLSSYNIAW DWNGPKWTFI

Homo sapiens

P

LR92

G Protein-Coupled Receptor GPCR3

194903

676

677	194904	WO0034334- hFB41A	AX147788	<p>VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSTQCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAGGRL CFLMLGSLAA GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIHFKFST KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWLVVWTP LAREYQRFPH LVMLECTETN SLGFILAFLY NGLLSISAF CSYLKDLPE NYNEAKCVTF SLLFNFSVWI AFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDNLST EHFQASIQDY TRRCGST</p> <p>gagcaacatg atcttttga agtactgac gggtgctgtc ttgacgggtca cgaagcacag agtgttgatc atgctgtgc tcatggcgal gcactgcagc atgtagaagg cagtagagg ggtgtcttcc ttcaacaaca cgggtggggaa gaagtcgcgc acgatgg'tga agccgttagaa ggggcgccag calagcacgt aggcgggtgag gatgcacatg agcacacagga ccgttctct cgggcagcgc agcctctgc ggtatcgtc tgtctggaat ccaggggaccg ccttgaacca ggtctcccg gtagctcgg calagcacag gg'tcatggg accacggggc ccacgaattc tatgccaaa ataaagagga agtaggacti gtagtagagc tgcgtgtcca caggccagat ctggccgcag aagatcttct cctggctct gacaatgac aggaacggtct cgggtggtaga gtaggcggaa gggtagggca tcaagatgga caccgtccac accaaggcaa tcaaggcagt ggtgtgtgg cacttattc gttgtctcag cggatggaca atagccagat acctaggggca agaacacaa gtagggcagc c</p> <p>MGFMDNATN TSTFSLVLN PHGAHATSP FNFSYSDYM PLDEDEDVTN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV</p> <p>CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIADRYL AIVHPLPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVIKSOEK IFCGQIWPVD QQLYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFFTVF VKEKHLYTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacgaggc gccggccgc atgtggagct gcagctgggt caacgggaca gggctgtgtgg agtagctggc tgcctgocag gaactgcagc tgggctgtc actgtgtgc ctgttgggccc tgggtgtgtgg cgttgcagtg ggcctgtgt acaacgcccc gctgtgtgc gccaacctac acagcaaggc cagcatgacc atgcccggagc tgtacttgt caacatggca gttgtcaggcc tgggtgtcag cggcctggcc cctgtgacc tgcctggccc ccgagctcc cgggtgggccc tggtagagt gggcggcgaa gtccatgtgg cactgcagat cccctcaat g'tgtctcac tgg'tgtgcat g'tacttacc gcccgtgtga gcttcgacca ctacatcgag cgtgcactgc cggggacctc calggccagc g'tgtacaaca cggcggcacgt g'tcgggttc g'tgtgtgtg g'cgcgtgt gaccagctc tctgtgtc tcttctacat ctgcagccat g'tgtccacc g'cgcgtcaga g'tgtcggcaag atgcagaacg cagaagcgtc cgaagccacg ctgtgttca tgggtacti g'tgtcagca ctggccaccc tctactgct g'tgtctac tccgcgtcc gcagggagga cagccccc g'actctgtgac gccaactat ctgacttgc tgggtcacac g'tcatc tgc'tgtgtgc caccgtgtc acgcagtttg g'ctctgtgac gccaactat ctgacttgc tgggtcacac g'tcatc tgc'gagggga agccgtgtga cgtacactac ctgggggtac tgcacttgt g'aaggtatlc tccaactcc tggccttc cagcagcttt g'tgacacc tctctacg ctacatgaac cagagcttc ccacgcaagt ccaacgggtc atgaaaaagc tgcctgtcgg g'gacccggcac tgcctccgg accacatggg g'tgtcagcag g'tgtcgtc g'tgtcgtc g'ccctcgtg g'gagag'tga ctctgtgtga c'gacagagcac tag'ttacc tggagctcc ccacatct ccaagaggag acgagctgt g'gagag'gag cag'gaggggt g'ttttcttg aagtctct ttcccaca atgocactct tgggccaagg ctgtgtcc cgtggctgtg atctgtgttg agctcccc gggcctgtgc g'tctccaaa cagcagctc aaggtccaca tctgcaaaag</p>	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	<p>MGFMDNATN TSTFSLVLN PHGAHATSP FNFSYSDYM PLDEDEDVTN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV</p> <p>CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIADRYL AIVHPLPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVIKSOEK IFCGQIWPVD QQLYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFFTVF VKEKHLYTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacgaggc gccggccgc atgtggagct gcagctgggt caacgggaca gggctgtgtgg agtagctggc tgcctgocag gaactgcagc tgggctgtc actgtgtgc ctgttgggccc tgggtgtgtgg cgttgcagtg ggcctgtgt acaacgcccc gctgtgtgc gccaacctac acagcaaggc cagcatgacc atgcccggagc tgtacttgt caacatggca gttgtcaggcc tgggtgtcag cggcctggcc cctgtgacc tgcctggccc ccgagctcc cgggtgggccc tggtagagt gggcggcgaa gtccatgtgg cactgcagat cccctcaat g'tgtctcac tgg'tgtgcat g'tacttacc gcccgtgtga gcttcgacca ctacatcgag cgtgcactgc cggggacctc calggccagc g'tgtacaaca cggcggcacgt g'tcgggttc g'tgtgtgtg g'cgcgtgt gaccagctc tctgtgtc tcttctacat ctgcagccat g'tgtccacc g'cgcgtcaga g'tgtcggcaag atgcagaacg cagaagcgtc cgaagccacg ctgtgttca tgggtacti g'tgtcagca ctggccaccc tctactgct g'tgtctac tccgcgtcc gcagggagga cagccccc g'actctgtgac gccaactat ctgacttgc tgggtcacac g'tcatc tgc'tgtgtgc caccgtgtc acgcagtttg g'ctctgtgac gccaactat ctgacttgc tgggtcacac g'tcatc tgc'gagggga agccgtgtga cgtacactac ctgggggtac tgcacttgt g'aaggtatlc tccaactcc tggccttc cagcagcttt g'tgacacc tctctacg ctacatgaac cagagcttc ccacgcaagt ccaacgggtc atgaaaaagc tgcctgtcgg g'gacccggcac tgcctccgg accacatggg g'tgtcagcag g'tgtcgtc g'tgtcgtc g'ccctcgtg g'gagag'tga ctctgtgtga c'gacagagcac tag'ttacc tggagctcc ccacatct ccaagaggag acgagctgt g'gagag'gag cag'gaggggt g'ttttcttg aagtctct ttcccaca atgocactct tgggccaagg ctgtgtcc cgtggctgtg atctgtgttg agctcccc gggcctgtgc g'tctccaaa cagcagctc aaggtccaca tctgcaaaag</p>	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	<p>ggcacgaggc gccggccgc atgtggagct gcagctgggt caacgggaca gggctgtgtgg agtagctggc tgcctgocag gaactgcagc tgggctgtc actgtgtgc ctgttgggccc tgggtgtgtgg cgttgcagtg ggcctgtgt acaacgcccc gctgtgtgc gccaacctac acagcaaggc cagcatgacc atgcccggagc tgtacttgt caacatggca gttgtcaggcc tgggtgtcag cggcctggcc cctgtgacc tgcctggccc ccgagctcc cgggtgggccc tggtagagt gggcggcgaa gtccatgtgg cactgcagat cccctcaat g'tgtctcac tgg'tgtgcat g'tacttacc gcccgtgtga gcttcgacca ctacatcgag cgtgcactgc cggggacctc calggccagc g'tgtacaaca cggcggcacgt g'tcgggttc g'tgtgtgtg g'cgcgtgt gaccagctc tctgtgtc tcttctacat ctgcagccat g'tgtccacc g'cgcgtcaga g'tgtcggcaag atgcagaacg cagaagcgtc cgaagccacg ctgtgttca tgggtacti g'tgtcagca ctggccaccc tctactgct g'tgtctac tccgcgtcc gcagggagga cagccccc g'actctgtgac gccaactat ctgacttgc tgggtcacac g'tcatc tgc'tgtgtgc caccgtgtc acgcagtttg g'ctctgtgac gccaactat ctgacttgc tgggtcacac g'tcatc tgc'gagggga agccgtgtga cgtacactac ctgggggtac tgcacttgt g'aaggtatlc tccaactcc tggccttc cagcagcttt g'tgacacc tctctacg ctacatgaac cagagcttc ccacgcaagt ccaacgggtc atgaaaaagc tgcctgtcgg g'gacccggcac tgcctccgg accacatggg g'tgtcagcag g'tgtcgtc g'tgtcgtc g'ccctcgtg g'gagag'tga ctctgtgtga c'gacagagcac tag'ttacc tggagctcc ccacatct ccaagaggag acgagctgt g'gagag'gag cag'gaggggt g'ttttcttg aagtctct ttcccaca atgocactct tgggccaagg ctgtgtcc cgtggctgtg atctgtgttg agctcccc gggcctgtgc g'tctccaaa cagcagctc aaggtccaca tctgcaaaag</p>	Homo sapiens

680	194905	G Protein-Coupled Receptor MGC7035	LR112	<p>ccctctgccc ttcagcctcc tccagcttca gttgtcaal gaagtatga aagcttagag ccagttatta tacttttgagg ttaaaatact tgaattcccc ttgtttgttt lacaaaaaca gaigtctctt agaaaatga caaatagtaa aalgaacaaa accctacgaa agaattggcaa cagccagggt ggccggggccc tgcagtgagg cggcggtgic tagcaaggcc tgcgggggtg gccgcagtica ccacagggtt ctgagaacat ticacagaag tgcctgagac gggagacat ggcctgggtt aatlgagct attcaatagc agtgacgccc tctctcagc caccaaatgt cccgacacc ctcaccagcc ccacagata acalcagctg aggtttttt cagttgaac ctgtcctaaa tcaattctc aaagtgtga caaactaaa gaataaaa aaacaaaaga aaggtgaaaa aaaaaaaa aaaaa</p> <p>MW'SCSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVVGVPV GLCYNALLVL</p> <p>ANLHKSASMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGGE</p> <p>VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF</p> <p>VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEAADAT LVFIGYVVPV</p> <p>LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY</p> <p>LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLRYRYMN</p> <p>QSFPKQLRL MKKLPCGDRH CSPDHMGVQQ VLA</p>	P	Homo sapiens
681	194907	G Protein-Coupled Receptor 14273	LD22826	<p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC</p> <p>CTGAATGCGC GCGGACAGG GCGACGCGC CTTTGCGCAG CCGTGGAGCAA</p> <p>GCCAAACGCA CCGCTTTCC CTCTCTCTCC GACGTCAAG GCGACCAACCG</p> <p>GCTGTGCTG CCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTGACG</p> <p>TGTCGTGCT GGGCAACGTG TGGCCCTGG TGCTGTGGC GCGCCGACGA</p> <p>CGCCGGCGG CGACTGCTG CCTGTACTC AACCTCTCT GCGCGGACCT</p> <p>GCTCTTCATC AGCGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG</p> <p>CCTCCCTGCT GGGCCCCGT GCTGCCACC TGCTCTCTA CGTGATGACC</p> <p>CTGAGCGGA CGGTCAACAT CCTACGCTG GCGCGGTCA GCCTGGAGGG</p> <p>CATGGTGRG ATCGRGACC TGGAGCGCG CGTGCGGGT CCTCCGCGGC</p> <p>GGCGCGGC AGTGCTGCTG GCSCTCATCT GGGCTATTG GCGGTGCGC</p> <p>GCTCTGCC TCCTGCTCTT CTCTCGATC GTCCCGCAAC GGCTCCCCG</p> <p>CGCCGACCA GAAATTCGA TTGACACT GATTTGGCC AGCATTCCTC</p> <p>GAGAGATCTC GTGGATGTC TCCTTTGTA CTGTGAACCT CTGTGTGCCA</p> <p>GGACTGGTCA TTGTGATCAG TTAATCCAAA ATTTACAGA TCACAAAGG</p> <p>ATCAAGGAAG AGGTCACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA</p> <p>TCCGCGTGC CCAGCAGGAC TTCGGGCTCT TCCGCAACCT CTTCCTCTC</p> <p>ATGGTCTCT TCTTCATCAT GTGGAGCCCC ATCATCATCA CCATCTCTCT</p> <p>CATCCTGATC CAGAACTTCA AGCAAGACCT GGTCTATCTG CCGTCCCTCT</p> <p>TCCTCTGGGT GGTCCCTTC ACATTTGCTA ATTCAGCCCT AAACCCCATC</p> <p>CTCTACAAAC TGACACTGTG CAGGAATGAG TGAAGAAAA TTTTGTGCTG</p> <p>CTCTGTGTC CCAGAAAAAG GAGCCATTT AACAGACACA TCTGTCAAAA</p> <p>GAAATGACTT GTCGATTAT TCTGGCTAAT TTTCTTTATA GCGGAGTTTC</p> <p>TCACACCTGG CGAGCTGTGG CATGCTTTTA AACAGAGTTC ATTCCAGTA</p> <p>CCCTCCATCA GTGCACCCCTG CTTTAAGAAA ATGAACCTAT GCAAAATAGAC</p> <p>ATCCACAGCG TCGTAAAT AAGGGTGAT CACCAAGTTT CATAATATT</p> <p>TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCCGTGAA</p>	A	Homo sapiens

682	194907	G Protein-Coupled Receptor 14273	LR116	<p>TCCACGACGT TTGGGTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCG AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAATAAAA AAAAAATA GCTGGGAGTG GTGGTGGCA CCGTAATOC TAGCTACTTG GGAGGCTCAA CCACGAGAA CTCTTGAACC TGGAGGCG AGGTTGCAGT GAGCCGAGAT CGTGCCATTG CACTCCAACC AGGGCAACAA GAGTGAAACT CCATCTTAAA AAAAAAATAA AAGATTGT TATGGGTTC TTTTAAATGT GAACTTTTT AGTGTGTTG TATATGATCA AATTATAA ATATTATTT ATGACTGTC AGCAAAAAA AAAAAAAA AGGGCGG MSPCARAAG DAPLRLEQA NRTFPFSD VKGDHRLVLA AVETTVLVLI FVSVLLGNVC ALVLVARRR RGATACLVLN LFCADLLFIS APLVLA VRW TEAWLLGPVA CHLLFYVMTL SGSVTILTA AVSLDRMVC VMLQRGVRCP GRRARAVLLA LIWGYSAVAA LPLCVFFRVV PQLPGADQE ISICTLIWPT IPGEISWDVS FVTNLFLVPG LVIVISYSKI LQTTKASRKR LTVSLAYSRS HQIRVSQQDF RLFRTLFLLM VSFIMWSPI IDTILLILQ NFKQDLVIWP SLPPWVVA PT FANSALNPIL YNNMTCRNEW KKFCCTWFP EKGAITDTS VKRNDLSIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVLS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMTS EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVLQ NFGAVVWIAS ESWAIDPVLH NLTELGH LGT FLGITIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFTL LDHQIFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYYP LQRQKNIKTS LHTVNNTPM SMC SKRCQSG QKKKPVGIHV CCFECIDCLP GTFLNHTEQP NNEWSYQSET SCFKRQL VFL EWHEAPTIAV ALLAALGFLS TLAILVFWR HFQTPIVRSA GPMCFMLMT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRA Y SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSFAYMGK ELPTNYNEAK FITLSMTFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYFGP KCYMILFYPE RNTPAYFNSM IQGYTMRRD algaagcagca attatccct gctggggct ggcagcgt gctacgcga cgggaalgg tctggtga aaatccct ctcgcggga tccggggga lctgtaacat agtgttggc ttggggcgt gctggcgt gttggaaac ctcctggga tgaattcaat cctccattc aagcagcgc actctccgac caattctc gtgccttc tggccgcgc tggcgtgga cttggtgga cttggtgga cttcagcgt gtcagcagg tggagcgt cttggtat tggagcgt ttgtactt cccacccgc tttggtgga cttgtgga ctctctc ttactgt gcttactc cttcagcgt taccgctt taccgctt cttggtgga cttggtgga cttggtgga tgggtcagga attgcatca gctgtcgt gatccgtcc cttggtgga gctgtggt gtttaccga ggtgtgga acgatggct ggggaatta tctggtgga laaacgtat agggagcgt cagaccgt taaatcaaaa cttgggtgga acgatgtt taccctt talactacc ttattatga taactgta tggtaaca ttctgtgga cttggtgga ggcagcga ggcagcga cttggtgga gacagaalca tctcagaga gttacaagc cagagtgcc agggagaga gaaagcagc taaacccgc ggggtcagc tggtagcatt tatgattca tggtagcatt atagcattca ttactaat gatgcctta tggcctta aaccctgcc tttattatg agatttgcgt ttgtgtgct tatataact cagcagcga tcttgaatt taltctat ttaccatg gtttaggaa gcaataaaa</p>	P	Homo sapiens
683	194908	G Protein-coupled Receptor Gpcrb4	LR117	<p>YNNMTCRNEW KKFCCTWFP EKGAITDTS VKRNDLSIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVLS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMTS EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVLQ NFGAVVWIAS ESWAIDPVLH NLTELGH LGT FLGITIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFTL LDHQIFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYYP LQRQKNIKTS LHTVNNTPM SMC SKRCQSG QKKKPVGIHV CCFECIDCLP GTFLNHTEQP NNEWSYQSET SCFKRQL VFL EWHEAPTIAV ALLAALGFLS TLAILVFWR HFQTPIVRSA GPMCFMLMT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRA Y SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSFAYMGK ELPTNYNEAK FITLSMTFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYFGP KCYMILFYPE RNTPAYFNSM IQGYTMRRD algaagcagca attatccct gctggggct ggcagcgt gctacgcga cgggaalgg tctggtga aaatccct ctcgcggga tccggggga lctgtaacat agtgttggc ttggggcgt gctggcgt gttggaaac ctcctggga tgaattcaat cctccattc aagcagcgc actctccgac caattctc gtgccttc tggccgcgc tggcgtgga cttggtgga cttggtgga cttcagcgt gtcagcagg tggagcgt cttggtat tggagcgt ttgtactt cccacccgc tttggtgga cttgtgga ctctctc ttactgt gcttactc cttcagcgt taccgctt taccgctt cttggtgga cttggtgga cttggtgga tgggtcagga attgcatca gctgtcgt gatccgtcc cttggtgga gctgtggt gtttaccga ggtgtgga acgatggct ggggaatta tctggtgga laaacgtat agggagcgt cagaccgt taaatcaaaa cttgggtgga acgatgtt taccctt talactacc ttattatga taactgta tggtaaca ttctgtgga cttggtgga ggcagcga ggcagcga cttggtgga gacagaalca tctcagaga gttacaagc cagagtgcc agggagaga gaaagcagc taaacccgc ggggtcagc tggtagcatt tatgattca tggtagcatt atagcattca ttactaat gatgcctta tggcctta aaccctgcc tttattatg agatttgcgt ttgtgtgct tatataact cagcagcga tcttgaatt taltctat ttaccatg gtttaggaa gcaataaaa</p>	P	Homo sapiens
684	194957	Trace Amine Receptor 4 (TA4)	AF380192	<p>YNNMTCRNEW KKFCCTWFP EKGAITDTS VKRNDLSIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVLS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMTS EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVLQ NFGAVVWIAS ESWAIDPVLH NLTELGH LGT FLGITIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFTL LDHQIFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYYP LQRQKNIKTS LHTVNNTPM SMC SKRCQSG QKKKPVGIHV CCFECIDCLP GTFLNHTEQP NNEWSYQSET SCFKRQL VFL EWHEAPTIAV ALLAALGFLS TLAILVFWR HFQTPIVRSA GPMCFMLMT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRA Y SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSFAYMGK ELPTNYNEAK FITLSMTFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYFGP KCYMILFYPE RNTPAYFNSM IQGYTMRRD algaagcagca attatccct gctggggct ggcagcgt gctacgcga cgggaalgg tctggtga aaatccct ctcgcggga tccggggga lctgtaacat agtgttggc ttggggcgt gctggcgt gttggaaac ctcctggga tgaattcaat cctccattc aagcagcgc actctccgac caattctc gtgccttc tggccgcgc tggcgtgga cttggtgga cttggtgga cttcagcgt gtcagcagg tggagcgt cttggtat tggagcgt ttgtactt cccacccgc tttggtgga cttgtgga ctctctc ttactgt gcttactc cttcagcgt taccgctt taccgctt cttggtgga cttggtgga cttggtgga tgggtcagga attgcatca gctgtcgt gatccgtcc cttggtgga gctgtggt gtttaccga ggtgtgga acgatggct ggggaatta tctggtgga laaacgtat agggagcgt cagaccgt taaatcaaaa cttgggtgga acgatgtt taccctt talactacc ttattatga taactgta tggtaaca ttctgtgga cttggtgga ggcagcga ggcagcga cttggtgga gacagaalca tctcagaga gttacaagc cagagtgcc agggagaga gaaagcagc taaacccgc ggggtcagc tggtagcatt tatgattca tggtagcatt atagcattca ttactaat gatgcctta tggcctta aaccctgcc tttattatg agatttgcgt ttgtgtgct tatataact cagcagcga tcttgaatt taltctat ttaccatg gtttaggaa gcaataaaa</p>	A	Homo sapiens

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttattgaac tggcaggtt ttaagaaca gttcagaac calgaatttg ttcttgaac alalaa MSNSSLLVA VQLCYANVNG SCVKIPFSPG SRVILYVFG FGAVLAVFGN LLVMISILHF KQLHSPTNFL VASLACADFL VGVTVMPFSM VRTVESCWFYF GRSFCTHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PTKFTVSUSG ICISVSWILP LMYSGAVFYT GYVDDGLEEL SDALNCIGCG QTVNQNWVL TDFLSFFIPT FIMILYGNL FLVARRQAKK IENTGSKTES SSESYSKARVA RRRKAAKTL GVTVAFMIS WLPYSDSLI DAFMGFITPA CIYEICCWCA YVNSAMNPLI YALFYPWFRK AIKVITGVQV LKNSSATMNL FSEHI</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgaccaga attttcca accgtgttg cagcttgtt atgaggatg gaalgatc tgiatgaa ctccattc tctgggtcc cgggtaatic tgiacagcg gttagctt gggctttgc tggctgtatt tggaaatc ttagtaaga ctctgttct tcatltaag cagctgcat ctcaacaa ttcttcat gctctctgg ccgtgtcga ctcttgga ggtgtgac tgaatctt cagcatggtc aggacggtgg agatgtctg gtaattgga gcaaatit gtaetlca cagttgctg gatgtggcal ttgtactc ttctgtcc cacttgct tcatctgcat cgacaggac atgtggta ctgaacctt ggtatgct accaagtca ccgtgtctg gtccgggaat tgcatcagc tgcctggat tctgctc acgtacagc ggtgtgtt ctacacaggt gtaaatgat atgggtcga ggaatgta agtgcctca actgctagg tggctgtcaa atattgtaa gtcaaggctg ggtgtgala gatttctg tatttcat acctacct gttatgaa ttctttag taagtatt ctatagct aacaacagc taaaaat gaaactacta gtagcaagt agaalccc tcaagatg ataaatcag agtggccag agagagga agcagctaa aacctgggg gtacgggtac tagcattgt tattcatg ttaccgata cagtgtat ataatgat gcttttag gcttccgac ccctgctat atctatgaaa tttgcgtg ggtgttat talaacag ccatgaatc ttgatatt gcttatit atctgtgt taggaagcc ataaactia tttgaagg agatgta aaggctgt catcaact tagttatt ttagaala</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFLSMV RTVESCWFYF AKFCTLHSCC DVAFCYSSL HLCFICIDRY IVVTDPLVYA TKFTVSUSGI CISVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKJF LIAKQQAUKI ETTSSKVESS SESYKIRVAK RERKAAKTLG VTVLAFVISW LPYTVDLID AFMGFLTPAY IYEICCWSA YNSAMNPLIY ALFYPWFRKA IKLILSGDVL KASSSTISLF LE</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcattgct tcttctctg ccatgatga ccagtctag tcacagatg gtcaaca cctcttg tatiatc cctccaccg aaagaaat tcaagaccag gtagatgaa tcatcgggtc caaagccgtg gccgatgag tgggggtgt ttgatctaa tgtattccc atgtcagcac agaactgtg tggcagtaga gtagatgtag gttcagat caacaagaac tggattcaa actggattg aggaacccca ccttggtaa gtgacttatt atctgcgagc ctctgttct ctcttcta aatgaggaca gtaaatccca tacggcaggg tggggggag aatcagat gatacagc gtgatcac ctgtttgt ttccagggg caccagacia gagtttcta gcatggatc aaccgtcca gtctcgga caaaatgac accaatcaac ggacgtgagg agactcctg ctacaalcag acctgaat tcaaggtgt gactgcatc atttccctg tccagatgac aggaacgcg gtagtctct ggctcagg gttaccgcat ccagaggacg ctgtccat ctacatc atccgtcc aaccggcc cagcagact cctctccc agctccaga ttatctg gccatagc ctatcaala ttagcatct catccgcaa atccgtgt ctgtgtgac ctctccac tttaaggcc tgaatgct gtagggcatc agcaccagc gctgctgt tctgtgtg ccatctgt accgtgccc ccggccaca cactgtcag cgggtgtgtg tgcctgtc tggggcctgt cctgtgtt tagtgtctg gaggaggag tctgtgact cctgttagt ggtgtgact ctagtgtg tgaacgtca gattatcc cagtcgtg gctgattt ttatgtgg ttctgtgt ttcagccgtg gtctgtcgg ttaggatct ctgtggatcc cgggaagatgc cgtgacagc gctgtacgtg accatctgc</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	<p>tcacagtgct gggtctctc ctcgggcc tgcctcggg caticgggg goctaatl acagatgca cctgaattg gaagtctat altgcatgt ttaictggt tgcaltccc tgcctictt aaacagatgt gccaacccca tcaattact ctcgtgggc tccctiaggc agcgtcaaaa laggcagaac cigaagctgg ticcacagag ggctcigcag gacaagcctg aggtggataa aggtgaaggg cagcttcctg aggaagcct ggagctgtcg ggaagcagat tggggccalg agggagagcc tctgcctgt cagtacagc ggactttgag agcaacatg tctgccacc ctgacaatt acatgctt tictagct ttcgctcag aaatgctca gttgtaanc aaggctca aataaagtt tatcaacct gacagtga gtttacc atggaagca ttactctgac agtacaatgt ttgg MDTPVPVFGT KLTPIINGREE TPCYNQTLSTF TVLTCTISLV GLTGNVVLVW P Homo LLGYRMRRNA VSYILNLAA ADFLFLSFQI IRSPRLINI SHLRKILVS VMTPPYFTGL sapiens SMLSALISTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LFLSMLEWRF CDFLFGADS SWCETSDIFP VAWLFLCVV LCVSSLVLLV RILCGSRKMP LTRLVVTILL TVLVFLLCGL PFGILGALY RMHLNLEVLV CHVYLVCMSL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLELSGSRL GP</p>	
690	195015	G Protein- Coupled Receptor GPR82	AF411111	<p>atgaacaaca atacaacatg tatcaacca tctatgaict ctccatggc ttacaacac alttatacc tccittglat tgttgggtgt ttgggaaca ctcctctca atggatatt ttaacaaaaa taggtaaaaa aacatcaacg cacatcacc tgtcacact tgtactga aacttactg tggcagtg cctgccttc atgataict attcctgaa aggtttccaa tgggaatac aatcigtca atgcagagtg gtcaatttc tgggaactc atccatgat gcaagatgt tigtcagict ctaatttta agttggtatg ccataagccg ctatgctacc ttaatgcaaa aggtattcct gcaagagact actcatgct atgagaaaat atttatggc cacttactga aaaaatttcg ccagcccaac tttctagaa aactatgat ttacatagg ggagttgtac tgggcataat caticcagti accgtatct actcagtcac agaggctaca gaaaggagaag agagcctalg ctacaatgg cagatggac taggagccat gatctctcag attgcaggic tcatitggaac cacatttatt ggatttct tttagatg actaacatca tactactt tttagaaca tctgagaaaa ataagaacct gtacgtccat talggagaaa gattigact acagttctg gaaaagacat cttttggca tccagatct actaatagti tgcctcttc ctataglat ttttaaac accattttatg ttctacaca aagagataac tgtcagcaat tgaattatt aatagaaca aaaaacalc tcccttct tgcctggcc agaagtagca cagaccccat tatattctt ttatagaca aaacattcaa gaagacacta tataatctt ttacaagtc taattcaga catatgaat catatggtg a</p>	
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	<p>MNNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHLVTA P Homo NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLSTMH ASMFVSLIL sapiens SWIAISRYAT LMQKDSQJET TSCYEKIFYG HLLKKFRQPN FARKLCYIW GVVLGHPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSVSKRH LLVIQILLIV CFLPYSIFKP IFYVVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIIFL LLDKTFKKTL YNLFTKSNSA HMQSYG</p>	

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aacaccacat caccaccggc tccctttgag accggcggca acactactgg tatctccgac gtaccgtca gtaccaagt gatcacctct ctgtgctgg gcactctcat ctctgcgcg gtgcgtggca atgcgtgcgt ggtggctgac atcgcccttg agcgtccctt ccagaacgtg gccaatatc ttattggctc ttggcggtc accgacctca tgggtgcgtt gttggtgctg cccatggcgc cgtgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcacgc cctcgacgt gctgtgctgc acctcatcca tcttgacct gtgcgccat gcgtggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gaggaagccc cggccgcgtg cgtcatctc gtcacttgg ctattggct tctcatctc tatcccgccc atcctgggct ggccacccc ggaagaccgc tcggacccc acgcatgcac cattagcaag gatcatggct acactatcta ttccacctt ggagctttct acatccgct gctgtcatg ctggttctct atgggcgcac attccgagct gcgcgcttc gcaccgcaa gacgtgcaaa aaggtggaga agaccggagc ggacacccgc catggagcat ctcccgccc gcagcccaag aagagtgtga atggagagtc gggagcagg aactggaggc tggcggtgga gagcaaggct gggggtgctc tgtgcgcaa tggcgcggtg aggcaagggt acgatggcgc cgcctggag gtgatcgagg tgcaccgagt gggcaactcc aaagagcact tgcctctgcc cagcaggtc ggtcctacc ctgtgcccc cgcctcttc gagaggaaa atgagcgcaa cgccgaggc aagcgcaaga tggccctggc ccgagagagg aagacagtga agacgtggg catcatcctg ggcaccttca tctctgctg gctgcccctc ttcacgtggt ctctgttctt gccctctgc gagacagct gccacatgcc caccctgttg ggcgccataa tcaattggct gggctactcc aactctctgc ttaaccccg catttacgca tacttcaaca aggaactttca aaacgcgtt aagaagatca ttaagtgtaa ctctgcgcg cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSPGQGN NTSPPAPFE TGGNTTGISD VTVSYQVITS LLGTLIFCA VLGNACVVAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMALYQVLN KWTLGQVTC LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLM LVLYGRIFRA ARFRIRKTVK KVEKTGADTR HGASAPAPQPK KSVNGESGSR NWRLGVESKA GGALCANGAV RQDDGAALAE VIEVHRVGN KEHLPLPSEA GPTPCAPASF ERKNERNAEA KRKMALARER KTVKTLGIIM GTFILCWLPF FIVALVLPFC ESSCHMPTLL GAINWLGYNS NSLLNPVIYA YFNKDFQNAF KKIICKNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaaac cgggtgctca gtgcgctcca ccgcgcggcgc cgggctccga gacctgggtt cctcaagcca acctatcctc tgcctcctcc caaaactgca gcgccaagga ctacatttac caggactcca tctccctacc ctggaagata ctgctggtta tgcatttggc gctcatcacc ttggccacca cgtctccaa tgcctttgtg attgccacag tgtaccggac ccggaactg cacaccccg ctaactacct gatcgctct cgtgcggtca cgcactgct tgtgtccatc ctgggtgatgc ccatcagcac catgtacact gtcacggcc cgtggacact gggccagggtg gtctgtgact tctggctgtc gtcggacatc acttgttga ctgacctcat cctgcacctc tgtgtcatcg cctgtgaccg ctactgggc atcacggagc ccgtggagta ctcagctaaa aggactcca agaggcggc ggtcatgatc gcgctgggtg ggtcttctc catctctatc	A	Homo sapiens

77/448

Homo
sapiens

P

5-HT1B
Receptor

128

NP_000854.1

4

tcgtgcccgc ccttctcttg gcgtcaggct aaggccgaag aggagtgctc ggaatgcgtg
 gtgaacaccc accacatcct ctacacggtc tactccacgg tgggtgcttt ctactcccc
 acctgctcc tcctgcctct ctatggccgc atctacgtag aagcccgctc ccgatttttg
 aaacagacgc ccaacaggac cggcaagcgc ttgacccgag ccagctgat aaccgactcc
 cccgggtcca cgtcctcggt cactctatt aactcgcggg tccccagct gccagcgaa
 tccggatctc ctgtgtatgt gaaccaagtc aaagtgcgag tctccgacgc cctgctggaa
 aagaagaac tcattggccgc tagggagcgc aaagccacca agaccctagg gatcattttg
 ggagccttta ttgtgtgttg gctacccttc ttcacatctc cctagtgtat gcctatctgc
 aaagatgcct gctgggtcca cctagccatc ttgacttctc tcacatggct gggctatctc
 aactccctca tcaaccccat aatctatacc atgtccaatg aggactttta acaagcattc
 cataaactga tacgttttaa gtgcacaagt tga
 ctaaaactga taccgtttta qpqnlssaps qnsakdyiy qdsislpkv llvmlalait
 lattsnafev iatvtrkl htpanylias lavtdllvsi lvmpistmyt vtgrwtlgqv
 vcdflssdi tcctasilhl cvialdrywa itdaveysak rtpkraavmi alwvvsisi
 slppffwroa kaeevsecv vntdhilytv ystvgafyfp tlllialygr iyvearsril
 kqtpnrtgkr ltraqlitds pgstssvtsi nsrvdpvse sgspvynqv kvrvsdalle
 kklmaarer katktlgiil gafivcwlpf fiislvmfic kdacwfhla fdfwtlgyt
 nslnpiiyt msnedfkqaf hklirfkcts

Homo
sapiens

A

5-HT1D
Receptor

129

NM_000864

5

agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca
 gtcagcagaa ggccttcccc agaggcctc caacagatc ctgaatgcca cagaaacctc
 agaggcttg gatccacaga cctccaggc gctcaagtc tcccttgccg tggctcttcc
 cgtcatcaca ctggccacag tccctccaa tgcctttgta ctcaccacca tcttactcac
 caggaagctc cacacccctg ccaactacct gattggctcc ctggccacca cgcactctct
 ggtttccatc ttggtaatgc ccatcagcat cgcctatacc atcaccaca cctggaactt
 tggccaaatc ttgtgtgaca tctggctgtc ctctgacatc acgtgtgca cagctccat
 cctgcatctc tgtgtcattg ctctggacag gtactgggca atcacagatg ccttggaaata
 cagtaaacgc aggacggctg gccacgggc caccatgatc gccattgtct gggccatctc
 catctgcac tccatcccc cgtctctctg gcggcaggcc aaggccagg aggagatgtc
 ggactgtctg gtgaacacct ctcatatct atattggccg atctaccggg ctgccccgaa
 ctacattccc tgggtgttg tcactatct cactctatgg gaagcgctc accacggccc acctcatc
 ccgcatctcg aatccacct cactctatgg tctgctcgt caactccagc ctcatgagg ggcactcgca
 aggtctctgc gggctctgc ttttcaacca cgtgaaatc aagcttgctg acagtgcct
 ctggctggc tccctctct ctgctcgaga aagaaagcc actaaaatcc tgggcatcat
 ggaacgcaag aggatctctg ctgctcgaga aagaaagcc actaaaatcc tgggcatcat
 tctgggggc tttatcatct gctggctgct tctctctg gtgtctctg tccctcccc
 ctgcccggac tctgtgtgga tccacccggc gctctttgac tcttccact ggctaggcta
 tttaaactcc ctcatcaat caataatcta cactgtgttt aatgaagagt tccggcaagc
 ttttcagaaa atgttccct tccggaaggc ctctagtct tattcgatga ggtaaaagaa
 msplnqsaeg lpqeaenrsl natetseawd prtqlalkis lavlsvitl atvlснаfvl
 ttilltrklh tpanylglsl attdllvsl vmpisiayti thtwnfgqil cdiwlssdit
 cctasilhlc vialdrywai tdaleyskrr taghaatmia ivwaaisicis ipplfwrqak

Homo
sapiens

P

5-HT1D
Receptor

129

NP_000855.1

6

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGRI YRAARNRILN PPSLYGKRF TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVKIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPEFFV SLVLPICRDS CWIHPALFDF FTWLGYLNSL INPIIYTVFN EEFRQAFQKI VPFKAS </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttccg A agtgaagatt ctggagccag ctggactgac cggtttgccc agtgcggcgc ggcgtcaacgc accgtccaca agagtctcag tcgcccaggc tggagtgacg cagcacagtc tcacctcatt gaaacctcgc cctcccggtt tcgcccgggtc tcgcccag cttcctagta cgtgggattg caggactca ccacatgcc cggctaattt ttgaatttt tagtgagac gggatttcac catgttgccc atgtgtgtct tgaaccccg accctggatg atcgccgcgc ctggccctcc caaagtgcg gaattacagg cgaaccttca ctcaagaaga atgctgtggc cttcccttt accaacagaa aatggaacac aagagaccac atagctgaac aaattatagc ctcttacaa gtgagaaacc ttcgaggcta catagttttc agccaaagga aaataaccaa cagcttctcc acagtgtaga ctgaacaag ggaacatga acatcacaa ctgtaccaca gaggccagca tggctataag acccaagacc atcaactaga agatgctcat tgcattgact ctggtgtgca tcaccacctt caccagttg ctgaacttgg ctgtgatcat ggctattggc accaccaaga agctccacca gcctgccaac tacctaattc agcatcatc acattgtcat ggtcgtgtg cagtgtcgt catgcccctg agcatcatc acattgtcat ggtcgtgtg agcttgggt acttctctg tgaagtgtg ctgagtgtg acatgacctg ctgcacctgc tccatctcc acctctgtg cattgccctg gacaggtact gggccatcac caatgctatt gaatacgcca ggaagaggac ggccaagg gcccgtga tgccttacc cgtctggacc atctccattt tcatctccat gccctctg tctggagaa gccaccgccc cctaagccct cccctagtc agtgcacctt ccagcagac catgttatct acaccattta ctccacgctg ggtgcgtttt atatccctt gactttgata ctgattctct attaccggtt ttaccacgct gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt cttttgcaag ttgtaaactt acacagactt tctgtgtgtc tgacttctcc acctagacc ctaccacaga gtttgaanaa ttccatgcct ccacagatg ccccccttc gacaatgatc tagatcacc aggaagacgt cagcagatct ctagcaccag ggaacggaag gcagcacgca tcttggggct gattctgggt gcattcattt tatcctggct gccatttttc atcaagagt tgattgtgg tctgagcatc tacaccgtgt cctcggaagt ggcgacttt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgcctatcac gatttttaaat gaagacttta agctggcttt taaaaagctc attagatgcc gagagcatat ttagactgta aaaagctaaa aggcacgact ttttccagag cctcatgagt ggatgggggt aagggtgtgca acttattaat tcttgaacat acttgggttca ggagagtgtg taagtgtgtg tggctgtgtt tcttgtttg tttgtttgtt ttgttctgtt ttgtttgagg attgttatctt ggcgtgtgtt tttctacctc tggctttatc tgtgatacat aatttcaaat aaacattatc atacaaaaac aaaaaaaa aaaaaaaa </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKFH ASIRIPPPDN DLDHGERQQ ISSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGYNLSLIN PLYTSEFED FKLAFFKLIIR CREHT</p> <p>atggatttct taattcatc tgatcaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctgggtgc cctcaactctg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctgc aattatttg acccggaagc tgcaccatcc agccaattat ttaatttggc ccttgccagt cacagatttt cttgtggctg tctcgtgtat gcccttcagc attgtgtata ttgtgagaga gagctggatt atgggggcaag tggctctgtga catttggctg agtgttgaca ttacctgctg cacgtgctcc atcttgcac tctcagctat agctttggat cggtatcgag caatcacaga tgcgtgttgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctattc tggaggcacc aaggaaactag cagagatgat gaatgcatca tcaagcacga ccacattgtt tccaccattt actcaacatt tggagcttcc tacatcccac tggcattgat ttgatcctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaaagc aagtaggatt gcaaaaggag agtggaatgg ccaagtcctt ttggagagt gtgagaaaaag cactaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaagc tctcaggtct gaattcaagc atgagaaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa gcagccacta cctgggatt aatcttgggt gcatttgtaa tatgtggct tcttttttt gtaaaagaat tagttgttaa tgcctgtgac aaatgtaaaa tttctgaaga aatgtccaat ttttggcat ggcttgggta tctcaattcc ctataaaatc cactgattta cacaatcttt aatgaagact tcaagaaagc attccaaaag ctgtgctgat gtcgagtta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDPLNSSDQN LTSEELNRM PSKILVSLTL SGLALMTTII NSLVIAAIIV TRKLHPANY P LICSLAVTDF LVAVLVPFS IVYIVRESWI MGQVVDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQTSRDD ECIIKHDHIV STIYSTFGAF YIPLALIL YKIYRAKT LYHKRQASRI AKEEVNGQVL LESGEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSIRS EFKHEKSWRR QKISGTREK AATTGLILG AFVICWLPFF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDEKKAFOK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtgtaat ggtgagcaga aactataaac tgttagtctt tctacacctc atctgctaca agttctggct tagacatgga tattctttgt gaagaaaaa cttctttgag ctcaactacg aactccctaa ttcaattaaa tgatgacac aggcctctaca gtaatgactt taactctgga gaagctaa ca ttctgatgc atttaactgg acagtgcact ctgaaaaatcg aaccacactt tctgtggaag ggtgcctctc accgtcgtgt cttctcttac ttcatctcca ggaaaaaaac tggctctgctt tactgacagc cgtagtgtatt attctaacta ttgctggaaa catactcgtc atcatggcag tgtccctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgccatag ctgatatgct gtggggtttc cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tatggccagc aagctttgtg cagtctggat ttactctggac gtgctcttct ccacggcctc catctgcac cctcggcca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcaactcca gaactaaggc</p>	Homo sapiens

12	NP_000612.1	5-HT2A Receptor	MDILCEINTS LSPSCLSLH LQKNWSALL LNDTRLYSN DFNSEANTS DAFNWTVDSE NRTNLSCEG P	Homo sapiens
132			atctctgaaa atcattgctg ttggaccat atcagtaggt atatccatgc caataccagt ctttgggcta caggacgatt cgaaggtctt taaggagggg agttgcttac tcgcccagatga taactttgtc ctgacgggt cttttgtgtc attttctatt cccttaacca tcatggtgat cactacttt ctactatca agtccactca gaaagaagct actttgtgtg taagtgtatct tggcacacgg gccaaattag cttctttcag cctctccct cagagtctct tgtcttcaga aaagctcttc cagcggtcga tccatattag gccagggtcc tacacaggca ggaggactat gcagtccatc agcaatgagc aaaggcgcag caagtgctg ggcacgtctt cttctcctgtt tgtgtgatg tgggtccctt tcttcacac aacatcatg gccgtcatct gcaaaagatc ctgcaatgag gatgtcattg ggccctgtct caatgtgttt gtttgatcg gttatctctc ttacgagtc aaccactag tctacacact gttcaacaag acctataggt cagccttttc acggtatatt cagtgtcagt caaggaaaa caaaaaacca ttgcagttaa ttttagtgaa cacaataccg gctttggcct acaagtcctag ccaacttcaa atgggacaaa aaaagaattc aaagcaagat gccaaagaca cagataatga ctgctcaatg gttgctctag gaaagcagca ttctgaagag gcttctaaag acaatagcga cggagtgaat gaaaagggtga gctgtgtgtg ataggctagt tgcgtggca actgtggaag gcacactgag caagttttca cctatctgga aaaaaaaat atgagattgg aaaaaattag acaagtcctg tggaaaccaac gatcatatct gtatgcctca ttttattctg tcaatgaaa gcggggttca atgtacaaa atgtgtgctt ggaaaaatgt ctgacagcat ttacagctgtg agctttctga tacttattta taacattgta aatgatatgt ctttaaatg attcactttt attgtataat tatgaagccc taagtaaatc taaattaact tctatttca agtggaaacc ttgctgctat gctgttctatt gatgacatgg gattgagttg gctcttaaa aattatcttt aaaaacttact atgtatatata ttttgaagg gaataaatg gctcttaaa aattatcttt aaaaacttact atgtatatata ttttgaagg agaaaaaaa aaagccacta agtgcagtgt tataaaatct gtattgctaa gataattaaa tgaataactt gacaacattt tctatagata ccattttgaa atattcaca ggttgcctggc atttgctgca tttcagttta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa ctattgctgc tttctcttct acttctgtg ctttactctg aatttccagt gtggtcttgt ttaatatattg ttctcttagg taaactagca aaaggatgat ttaacattac caaatgcctt tctagcaatt gcttctctaa aacagcacta tcgaggtatt tggtaacttg ctgtgaaatg actgcatcat gcatgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcagga ttgaggatga actcaggttt ccggtactg acagtggtag agtccatgga catctctgta aaaaagcaggt gactttctta tgacactcat caggtaaact gatgtttca gatccatcgg ttatactat ttattaaaac catctgctt ggtccacaa tcatctattg agtgtacatt tatgtgtgaa gcaaatctt agatatgaga aatataaaaa taataaaaaa aaaaatcctg cctcaaacg aaatggctcg gccaggcagc gaggctcgtg catgtaatcc tagcactttg ggaggctgag atgggaggt cacttgaggc caagagtgtt agaccaacct gggtacaaaa gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgatcctt gtggcacaca actgtgtgccc cagctacagg ggaggctgag acgcaaggat cacttgagcc cagaagctca aggtgtcagt gagccaagt cacaccactg ccatttctc ctgggcaaca gagtgaagc ctatcacccc gaattc	

13	133	5-HT2B Receptor	NM_000867	<p>MLLGFLVMPV SMLTILYGYR WPLPSKLCV WYILDVLFST ASIMHLCAIS LDYVVAIQNP IHHSRENSRT KAFLKIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDFEVLIGSF VSFFIPLTIM VITYFLTIKS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLFQSIH REPGSYTGRR TMSISNEQK ACKVLGIVFF LFVVMCPFF ITNIMAVICK ESCNEDVIGA LINVFWIGY LSSAVNPLVY TLENKTYRSA FSRYIQCYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTD NDCSMVALGK QHSEASKDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gttcgggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaaac cacaattcct gagacattt tgcagagcac ctttgttcac gttatctctt ctaactggctc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaata taaactgcac tgggcagctc tctgatact catggtgata ataccacaa ttggtggaaa tacccttgtt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaattgctc ttggcgggtgg ctgatttgc ggttggtatg tttgtgatgc caattgccc ttggacaata atgtttgagg ctatgtggcc ctccaccatt gttctatgct ctgcttggtt attcttgac gttctctttt caaccgcatc catcatgcat ctctgtgcca tttcagtgga tcgtttacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggtacagc attcatcaag attacagtgg tgtggttaat ttcaataggc attgccattc cagtcctat taaagggata gagactgatg tggacaacc aaacaatatc acttgtgtgc tgacaaaagg acgttttggc gatttcagc tctttggctc actggctgcc tcttcacac ctcttgcaat tatgattgtc acctactttc tcaatatcca tgctttacag aagaaggctt acttagtcaa aaacaagcca cctcaacgcc taacatgggt gactgtgtct acagtttctc aaagggtga aacacttgc tctcaacggg aaagggtggc aatgtggat ggttctcgaa aggacaaggc tctgcccac tcaagtgatg aaacattat gcgaagaaca tccacaattg gaaaaagtc agtgcagacc atttccaacg aacagagagc ctcaaaagtc ctagggttg tgttttctc tttttgctt atgtgtgtgc ccttctttat tacaatatata actttagttt tatgtgattc ctgtaaccaa actactctcc aaatgctcct ggagataattt gtgtggatag gctatgttct ctcaaggagt aatcctttgg tctacacct cttcaataag acatttcggg atgcatttgg ccgatatatc acctgcaatt accggggccac aaagtcagta aaaactctca gaaaacgctc cagtaagatc tacttcgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggattaacc ctgccatga ccagagtcca atgaggctcc gaagttcaac cattcagctc tcatcaatca tttactaga tagcttctc ctcaactgaa atgaaggta caaaactgaa gagcaagta gttatgtata gcagaactgg cagttgtcat caacataat gatgagtaag atgatgaatg agatgtaaat gtgccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataaat ttcaggcttt aaaaaaaaa</p>	Homo sapiens
14	133	5-HT2B Receptor	NP_000858.1	<p>MALSYRVSEL QSTIPEHIQ STFVHVISSN WSLQTESIP EEMKQIVVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKLQYATN YFLMSLAVD LLVGLFVMPI ALLTIMFEAM WPLPLVLCPA WLFLDVLFST ASIMHLCAIS VDRYIAIKKP IQANQYNSRA TAFIKITVVW LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

[illegible]

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16	134	5-HT2C Receptor	NP_000859.1	<p>ctaatctctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatgt tgaataaaaa aaaaaaaa aaaa MWNLRNAVHS FLVHLIGLLV WQCDISVSPV AAIVTDIENT SDGGRFKFPD GVQWMPALSI P VIIIMTIGG NIVLMAVSM EKHLNATNY DMSLAIDM LVGLLVMPLS LLAILYDYVW PLPRYLCPVW ISLDVLFSTA SIMHLCAISL DRVVAIRNPI EHSRENSRTRK AIMKIAIYWA ISIGVSVPIP VIGLRDEEKV FWNNTTCVLN DNFVLTIGSF VAFFIPLTIM VITYCLTIYV LRRQALMLLH GHTEEPGLS LDFLKCKCRN TAEENSANP NQDNARRRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFFIT NILSVLCEKS CNQKIMEKLL NVFVWIGYVC SGINPLVYTL FNKIYRRAPS NYLRCNYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSSV VSERISSV</p>	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	<p>cgggtgcttat ttcctgtaat ggacaaactt gatgctaagt tgagttctga ggaggggttc A gggtcagtg gaaaggtggt gctgctcacg tttctctcga cggttatcct gatggccatc ttggggaaac tgctggtgat ggtggctgtg tgctgggaca ggcagctcag gaaataaaaa acaaattatt tcattgtatc tcttgctttt gcggatctgc tgggttcggt gctggtgatg ccctttggtg ccattgagct ggttcaagac atctggattt atggggaggt gttttgtctt gttcggacat ctctggacgt cctgctcaca acggcatcga ttttccacct gtgctgcatt ttctggata ggtattacgc catctgctgc cagccttttg tctataggaa caagatgacc cctctgcgca tcgcattaat gctgggaggg tgctgggtca tccccacgtt tatttctttt ctccctataa tgcaaggctg gaataacatt ggcaataattg atttgataga aaagaggaag ttcaaccaga actctaactc tacgtactgt gcttctcga tcaacaagcc ctacgccatc acctgctctg tgggtgacct ctacatccca tttctcctca tgggtgctggc ctattaccgc atctatgtca cagtaagga gcatgcccc cagatccaga tgttacaacg ggcagagacc tcctccgaga gcaggccctca gctggcagac cagcatcgat ctcatcgcat gagacagag accaagcag ccaagacct gtgcatactc atgggttgct tctgacctg ctgggcacca ttctttgga ccaatattgt ggatcctttc atagactaca ctgtccctgg gcaggtgtgg actgctttcc tctggctcgg ctatatcaat tccgggttga acccttttct ctacgccttc tgaataagt cttttagacg tgccttcctc atcatcctct gctgtgatga tgagcgctac cgaagacctt ccattctggg ccagactgtc cctgtttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgagtggt ggtggccagt gggagagtcga gtgtcacccg ccagcaactt ctcttttggt ggctgctcag cccagtga ca cttaggcccc tgggacaatg acccagaaga cagccatgcc tccgaaagag ggccaggtcc taagctgctg cttgtgcgcg actgcaaccg gcattctctt cactgagggc ttccgctccg caagtgcagg aaccgggtgc tcgctggg</p>	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	<p>MDKLDANVSS EEGFGSVEKV VLLTFLSTVI LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P SLAFADLIVS VLVMPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTTASIFH LCCISLDRY AICCOPLVYR NKMTPLRIAL MLGGCWVPT FISELPIMQG WNNIGIIDLI EKRFNQNSN STYCVFMVVK PYAITCVVA FYIPFLMLV AYRIYVTAK EHAHQIOMLQ RAGASSESRP QSDQHSRTHR MRETAKAT LCIIIMGCFCL CWAPFFVTNI VDPFIDYTPV GQWTAFLWL GYINSGLNPF LYAFLNKSFR RAFLIILCCD DERYRRPSIL GQTVPCSTTT INGSTHVLRD AVECGGQWES QCHPPATSPL VAAQPSDT</p>	Homo sapiens
19	138	5-HT6	NM_000871	<p>cccagagcgc cccattcacc cccctcacc accctcccg cttcccaact ccccgcaact A</p>	Homo

21	139	5-HT7 Receptor	NM_000872	ccatgggcag cggcacacgg cggcgcgatg atggacgtta acagcagcgg ccgcccggac A ctctacgggc acctccgctc ttctctcttg ccagaagtgg ggcgcgggct gcccgacttg agccccgacg gtggcgccga cccggtcgcg gctcctctgg cgcgcacact gctgagcggag gtgacagcca gcccgcgcc acctgggac ggcggccggg acaatgcctc cggctgtggg gaacagatca actacggcag agtcgagaaa gtgtgtgatc gctccatcct gacgtctcatc acgtgtctga cgatcgcggg caactcgctg gtgtgtatct cctgtgtgctt cgtcaagaag ctccgccagc cctccaacta cctgacgtg tccctggcg tggcgacact ctccgtgggt gtggcggtca tgccctcgct cagcgtcacc gacctcatcg gggcgaagtg gatctttgga cactttttct gtaatgtctt catcgccatg gacgtcatgt gctgacggc ctcgatactg acctgtgctg tgatcagcat tgacaggta cttgggatca caagcccc cacaaccct gtgaggcaga atgggaaatg catggcgaag atgattctct cctctggct tctctccgct tccatcacct tacctccact cttgggatg gctcagaatg taaatgatga taaggtgtgc ttgatcagcc aggaacttgg ctatacgatt tactctaccg cagtggcatt ttatatcccc atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccaggaa gagtgtgctc aaacacaaat ttcctggctt cctcgagtg gagccagaca cgtcatcgc cctgaatggc atagtgaagc tccagaagga ggtggaagag tgtgcaaac tttcgagact cctcaagcat gaaggaaaa acatctccat ctttaagcga gaacagaaa cagccaccac cctggggatc atcgtcgggg cctttaccgt gtgctggctg ccatttttcc tccctcgac agccagaccc ttcatctgtg gcacttctcg cagctgcac ccaactgtgg tggagaggac atttctgtg ctaggctatg caaactctct cattaaacct ttatatatag ccttctcaa cggggacctg aggaccacct atcgacgctt gctccagtgc cagtaccgga atatacccg gaagctctca gtgcaggca tgcataagc cctgaagctt cgtgagaggc cagagagacc tgagtgtgtg ctacaaaaatg ctgactactg tagaaaaaa ggtcatgatt catgattgaa agcagaacaa tggag	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	MMDNSSGRP DLYGHLRFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P DAPDNASGC GEQINYGRVE KVVIGSILTL ITLLTIAGNC LVVISVCFVK KLRQPSNYLI VSLALADLSV AVAVMPFVSU TDLIGGKWF GHFCNVFIA MDVMCCTASI MTLCVISIDR YLGITRPLTY PVRQNGKMA KMILSWLLS ASITLPLFG WAQNVNDDKV CLISQDFGYT IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHKPPGPR VEPDSVIALN GIVKLQKEVE ECANLSRLK HERKNISIFK REQKAATLIG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC IPLWVERTFL WLGYANSLIN PFIYAFENRD LRTYRSLLQ CQYRNINRKL SAAGMHEALK LAERPERPEF VLQADYCRK KGHDS atgagtgtca gaagtgtgaa ggggtcgctg tctgaatccc agagcctcct ctccctctgt A gagctggca ggtgaggaag ggttaacct cactggaagg aatccctgga gtagcggct gctgaaggcg tcgaggtgtg gggcacttg gacagaacag tcaggcagcc gggagctctg ccagcttttg tgaccttgg cgggctggg agcgtctcgg cgggagcccg aggactatga gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc ctgggaactt tgggactgc ctctgggacc cctgcccggc agcagggcagg atggtgtctg cctcgtgccc ttggtgccc gctgtgtgat gtgcccagcc tgtgcccggc atgcccctt ccatctcagc ttccaggcc gcctacatcg gcatcaggtt gctcatcgcc ctgggtctctg tgcccggaag cgtgctggtg atctggcgcg tgaaggtgaa ccaggcgctg cgggatgcca	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674		Homo sapiens

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aataaaaaa tgtgaacctt

Homo

Adenosine A1 NP_000665.1 MPPSISAFQA AYIGIEVLIA LVSVPGNVLV IWAQVKNQAL RDATAFCFIVS LAVADVAVGA P

272

24

Receptor	Adenosine .A2a Receptor	25	273	sapiens
LVIPLAAILN IGPQTYFHTC LMVACPVLIL TQSSILALLA IAVDRYLVRK IPLRYKMVVT	tttgcaggtg cctcaggaac cctgaagctg ggctgagcca tgatgctgct gccagaaccc A			Homo sapiens
PRRAAVAIAG CWILSFVVGL TPMFGWNLS AVERAWAANG SMGEPIKCE FEKVISM EYM	ctgcagaggg cctgggttca cctgaactcag agtcctctgt gaaaagcccc ttggagagcg			
VYENFFVWL PPLILMWLIY LEVFLIRKQ LNKKVSASSG DPQKYGKEL KIAKSLALIL	ccccagagg gctgcaactg gctcctgtga ggaaggggct caggggtctg ggccccccg			
FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVYAF RIQKFRVTFEL	cctgggcccgg gctgggagcc aggcggggcg ctgggctgca gcaatggacc gtgagctggc			
KIWNDFERCQ PAPPIDEDLP EERDD	ccagcccggg tccgtgctga gctgcccgtg cgtctgtggc catgcccac atgggctect			
	cggtgtacat cacggtggag ctggccattg ctgtgctggc catcctgggc aatgtgctgg			
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	gcatcccgct ccggtacaat ggcttggtga ccggcacgag ggctaagggc atcattgcca			
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	gcagtcctct cctgctgtga cagtgccat ccacttctca gtcccagggc catctcttgg			

28	274	Adenosine A2b Receptor	NP_000667.1	MLETQDALY VAELELVIAAL SVAGNVLVCA AVGTANTLQT PTNYFLVSLA AADVAVGLFA P IPFAITISLG FCTDFYGCLE LACFVLVLTQ SSIFSLLAVA VDRYLAICVP LRYKSLVTGT RARGVIAVLW VLAFIGLITP FLGWNKSDSA TNNCTEPWDG TTNESCCLVK CLFENVVPMMS YMYFNFFGC VLPPLLIMLV IYIKIFLVAC RQLQRTLEMD HSRTTLQREI HAAKSLAMIV GIFALCWLPV HAVNCVTLEFQ PAQGNKPKW AMNMAILLSH ANSVVNPIVY AYRNRDFRYT FKIISRYLL QQADVKSNG QAGVQPALGV GL	Homo sapiens
29	275	Adenosine A3 Receptor	NM_000677	atctttgctg caaaggctgg gtagcggtag tgctcagcaa agcgtcaact cgtgcaagaa A cttagcagga atagttctgg ctaaggcttag gagggcgcca ccaaaagtctc tttttgttc ctctgcttct ccggtttgcc tctttatcat gagatctttt tgctaagctg gcagaaagat tgcatagtca gtgcttccag ctctgctccc acctgacct gcactgtcct ctggtccctg aatgaatgaa ctctgatacc caatcttgct tctgctgaga gttctgagct ctgtacttcc tcttggtcca tcttctgctc tttccatctt ttgctgaga ttgcttatct tgatggaact caaaaagcca tctcacttcc tgaacacccc ctgaagaggg ttgcttatct tgatggaact caaaaagcca aaaagctgca ggcagagggc ttgaggacat ctggtttggg aactaagagc agcagcactt tcagattcag tccatataga gctgtctac agcattctgg aacttgagg atgtgcggtg cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga agggtttcca agagatcacc ccaccagaaa agggtaggaa tgagcaagt gggaatttta gactgtcaact gcacatggac ctctggggaag acgtctggcg agagctaggc ccaactggccc tacagacgga tcttgctggc tcacctgtcc ctgtggaggt tcccctggga agcgaagatg cccaacaaca gcactgctct gtcattggcc aatgttacct acatcacctt ggaattttc attggaactt gcgccatagt gggcaacgtg ctggtcatct gcgtgggtcaa gctgaacccc agcctgcaga ccaccacctt ctatttcatt gtctctctag ccttgctgta cattgctgtt ggggtgctgg tcattgcctt ggccattgtt gtcagccctg gcatacaca ccactctac agctgcctt ttatgacttg cctactgctt atctttacc acgctccat catgtccttg ctggccatcg ctgtggaccg atacttgcg gtcaagctta ccgtcagata caagaggggtc accactaca gaagaatatg gctggccctg ggcctttgct ggctgggtgc atctctgggtg gattgaccc ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt catgccaat tgtttccgct atgagaatgg actacatggt atactcagc ttcctcacct ggattttcat cccctgtgtt gtcattgctg ccatctatct tgacatcttt tacatcattc ggaacaaact cagtcctgaac ttatctaact ccaagagagc aggtgcattt tatggacggg agttcaagac ggctaagtcc ttgtttctgg ttcttttctt gtttgcctg tcatggctgc ctttatctat catcaactgc atcatctact ttaatggtga ggtaccacag cttgtgctgt acatggggcat cctgctgtcc catgccaaact ccatgatgaa cctatcgtc tatgcctata aaataaagaa gttcaaggaa acctacctt tgatcctcaa agcctgtgtg gctgcccac cctctgattc ttggacaca agcattgaga agaattctga gtattatcc atcagagatg actctgtctc attgacctc agattccccca tcaacaaaca cttgagggcc tgtatgcctg ggccaaggga tttttacatc cttgattact tccactagg tgggagcatc tccagtgtc cccaattata tctccccac tccactactc tcttctcca atctatctt cctttgtcct ttctctctaa ttcagtgtt ttgaggcctg acttggggagc aactattat tgatattatt gtctgttttc ctcttcccc atagaagaat aagtcattgga gcctgaaggg tgcctagtgtg acttactgac aaaaggctct agttgggctg aacatgtgtg tgggtgtgac tcatttccat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gcaattgtgg aattgagcag agaacctgct ctcgaggat gctagaaga tgttgggaac agaagaaata aactgagttt aaggggagct taaactgctg aattcacctg tggatgtttt tgagtaata aaagctaata g MPNNSTALS ANVSLYITMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGVLMPLAI VVSLGTIHF YSCLEMTCLL LIFTHASIMS LLAIAVDRLV RKLTVRYKR VTHRRINLA LGLCWLVSLF VGLTPMFGWN MKLTSEYHRN VFELSCQFVS VRMDYMYVF SFLTWIFIP LVMCAIYLDI FYIIRNKLSL NLSNSKETGA FYGREFKTAK SLFLVLFLEA LSWLPLSIIN CIIYFNGEVP QLVLYMGILL SHANSMMNPI VYAYKIKKFK ETYLLILKAC VVCHPSDSL TSIEKNSE	Homo sapiens
31	309	Melanocortin NM_000529 2 Receptor (adrenocorticotrophic hormone) (MC2R)	atgaagcaca ttatcaactc gtatgaaac atcaacaaca cagaagaaa taattccgac A tgtctcgtg tggttttgcc ggaggagata tttttcaca tttccattgt tggagttttg gagaatctga tctgctcgtt ggctgtgttc aagaataaga atctccaggc acccatgtac ttttcatct gtagctggc catatctgat atgtctggca gctatataa gatcttggaa aatatctga tcatattgag aaacatggc tatctcaagc acgtggcag ttttgaacc acagccgatg acatcatcga ctccctgtt gtccctccc tgccttcac cacttcacg ctgtctgtga ttgctgcgga ccgctacatc accatcttcc acgcaatgctg gtaccacagc atcgtgacca tgcgcgcgac tgtgtgtgtg cttaacgtca tctggacgtt ctgcacggg actggcatca ccattgtgat ctctcccat catgtgccc acgtgatcac ctacacgtg ctgttccgc tgaatgtgtg ctctacatc tgcctctatg tgcacatgtt cctgctggct cgatcccaaca ccaggagat ctccaccctc ccagagacca acatgaagg ggccatcaca ctgaccatcc tctcgggggt ctctatctc tgcctggccc ccttctgtct tcatgtcctc ttagtgacat tctgcgcaag taaccctac tgcgctgct acatgtctct ctccaggtg aacggcatgt tgaatcgtg caatgcctg attgacctt ccatatagc ctcccgagc ccagagctca gggacgcat caaaagatg atctctgca cgagtgactg gtag MKHINSYEN INNTARNSD CPRVLPEEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P FFICSLAISD MLGSLYKILE NILIILRMNG YLKPRGSFET TADDIISLF VLSLLGSIFS LSVIAADRYI TIFHALRHS IVTMRRTVV LVITWTFCTG TGITMVIFSH HVPTVITFTS LFPLMLVFIL CLYVHMFLLA RSHTRKISTL PRANMKGAIT LTILLGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLFQV NGMLIMCNV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin NP_000520.1 2 Receptor (adrenocorticotrophic hormone) (MC2R)	tcctggccggc cgctcgttct gtgcccccg cccggccacc gacggccgag cgttgagatg A actttccgag atctcctgag cgtcagttc gagggacccc gcccgagacag cagcgaggg ggctccagcg cgggcccggg cgggggcgag cggggcgagg cggcccccctc ggaggcccg gggtggggcg gcgtgcggcg gggcgcgagg ggcggcgagg cgtgtgtggg cgcaggcagc ggcagggaca accggagatc cgggggggag cgggggagcg cgggcgcggg cggcgacgtg aatggcacgg cggccgtcgg ggactgggtg gtgagcgcgc agggcgtggg cgtggcgctc ttcctggcag ccttcactct tatggccgtg gcaggttaacc tgccttgcac cctctcagtg gactgcaacc gccacctgca gaccgtcac aactattca tgcgtgaacct ggccgtggcc gacctgctgc tgaagccca cgtactgcc ttctcgcca ccatgagggt tctgggcttc tgggctttg gccgcgctt ctgcgacgta tgggcggcg cggacgtgct gtgctgcacg gcctccatcc tcagcctctg caccatctcc gtggaccggt acgtgggggt gcgccactca	Homo sapiens
33	376	Alpha 1d-adrenoceptor		

34	376	Alpha 1b- adrenoceptor	NP_000669.1	ctcaagtacc cagccatcat gaccgagcgc aaggcgccg ccatcctggc cctgctctgg gtcgtagccc tggtaggtgc cgtaggccc ctgctgggt ggaaggagcc cgtgccccct gacgagcgt tctgcggtat caccgagag gcgggctacg ctgtcttctc ctcggtgtgc tccttctacc tgcccatggc ggtcatcgtg gtcattgtact gccgcgtgta cgtggtcgcg cgcagcacca cgcgagcct cgaggcaggc gtcaagcgcg agcgaggcaa ggcctccgag gtggtgtgc gcaccactg tcgcgcgcg cgacggggc ccgacggggc gcacggcatg cgagcgcca agggccacac ctccgcagc tcgctctccg tgccctctgt caagtctcc cgtgagaaga aaggggccaa gactctggcc atcgctggg gtgtcttctg ctctctctgg ttccctttct tcttctctt gccgctcgcc tcttcttcc cgcagctgaa gccatcgag ggcgtcttca agtcatctt ctggctcgcc tacttcaaca gctgctgtaa ccgctcatc tacctctgtt ccagccgga gttcaagcg gccctctcc gctctctgag ctgccagtgc cgtcgtcgcc ggcgcccgc cctctctggt cgtgtctacg gccaccactg gcgggcccct accagcgcc tgcgcagga ctgcgcccc cgttcggcg agtcgcccc cggagcgccg ctggccctca ccgcgctccc cgaacccgac agtcgcccc caggcacgcc cgagatgcag gtcgcggtcg ccagcgtcg aaagccacc agcgccttc ccgagtgag gctgctggg ccgttcgga gaccacgac ccagctcgc gccaaagtct ccagcctgtc gcacaagtc cgcccgggg gcgcgagcg ccgagaggca gctgcgccc agcgtcaga ggtggaggct gtgtccctag cgtcccaaca cgagtgccc gagggcgcca cctgccaggc ctacgaatg gccgactaca gcaacctag ggagaccgat atttaaggac ccagagacta ggcgcggag tgtgctggc ttgggggtaa ggggaccag agagcgggc tgggttctta agagcccccg tgcaaatcgg agaccggaa actgatcagg gcagctgctc tgtgacatcc ctgaggaact gggcagagct tgaggtgga gcccttgaa ggtgaaaagt agtggggccc cctgctggac tcaggtgcc agaactctt tcttagaagg gagaggtgc ggcctccgtg gggcctttt ctcccaatcc ctatttgaga aacactgccc catcctccat gccctgaacc ctgagtagac agccccaagc atggccagga agcctgccc MTFRDLSVS FEGPRPDSSA GSSAGGGG SAGGAAPSEG PAVGVPPGA GGGGVVAG P SGEDNRSSAG EPGSAGAGD VNGTAAVGL VVSAQGVGVG VFLAAILMA VAGNLLVILS VACNRHLQTV TNYFIVNLAV ADLLSATVL PFSATMEVLG FWAFAFCD VWAADVLC TASILSLCTI SVDRYVGVVRH SLKYPAMTE CSFYLPMAVI VMYCRVYV ARSTRSLEA GVKRERGKAS PDERFCGITE EAGYAVFSSV MRSAGHTFR SLSVRLKLF SREKKAATL AIVGVFVLC EVVLRHCRG AATGADGAHG EGVEKVIWL GFNSCVNPL IYPCSSREFK RAFLRLRCQ WFFFFVPL GSLFQLKPS STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM CRRRRRRRPL WRVYGHWRRA STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM QAPVASRRKP PSAREWRLL GFRRRTTQL RAKVSSLSHK IRAGGAQRAE AACAQRSEVE AVSLGVPHEV AEGATQAYE LADYSLRET DI 35 377 Alpha 1b- adrenoceptor	NM_000679	aggcaggaga cgtgctcgcg gctgggctgc ccgggggaga tgactcctgc caggaggcg A cctctgggaa gaagaccag ggggaagcaa agtttcagg cagctgagga gccttcgccc cagcccttc gagcccaatc atccccag ctagggagg cggactctaa gatgaatccc gactggaca ccggccaca cacatcagca ctagccact ggggagagtt gaaaaatgcc aacttactg gcccacaac gacctgagc aactccac tgcccagct ggacatcac aggccatct ctgtgggctt ggtgctggc gccttcatcc tctttgccat cgtgggcaac	Homo sapiens	Homo sapiens
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36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagta tcttgtctgt ggctgtcaac cggcacctgc ggacgcccac caactacttc attgtcaacc tggccatggc cgacctgtgt ttgagcttca ccgtccctgcc ctctcagcgc gccctagagg tgcctggcta ctgggtgtgt gggcggtatct tctgtgacat ctgggcagcc gtggatgtcc tgtgtgtcac agcgtccatt ctgagcctgt ggcctcatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat cccacgtgtg tcacccggag gaagcccatc ttggcgtgc tcaagtgtctg ggtcttgtcc accgtcatct ccacgtggcc tctccttggg tggaaggagc cggcaacccaa cgatgacaag gagtgcggg tcaccgaaga acccttctat gccctcttct cctctctggg ctccttctac atccctctgg cggctattct agtcatgtac tgccgtgtct atatagtggc caagaagaac accaagaac tagaggcagg agtcatgaag gagatgtcca actccaagg gctgacctg aggtacctt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aacccacgga gtcccatagc tgtcaaaactt tttaagtctt ccagggaata gaaagcagct aagacgttgg gcatttgtgt cgcctatgtc atcttgtgt ggtacctt cttcatcgt ctaccgcttg gctccttgtt ctccacctg aagccccccg acgcgtgtt caagtgtgt tctgtgtgt gctacttcaa cagctgctc aaccctatca tctacccatg ctccagcaag gatttcaag gcgttttgt gcgcatectc gggtgccagt gccggggcgc cggccgcgc cgacgcgcgc gccgctgtgc cctggggcgc tgccctaca cctaccggcc gtggacgcgc gccgctcgc tggagcgtc gcagtcgcgc aaggactgc tggacgacag cggcagctgc ctgagcggca gccagcgag cctgcccctg gcctgcgcga gcccggtcta cctgggcgc gccgcgcac gccagtcga gctgtgcgc ttccccagt ggaaggcgc cggcgccctc ctgagcctgc ccgcgcctga gcccccgcc cgcccgccgc gccacgact gcccgccgc ttacacttca agtccctgac cgagcccgag agccccggga cgacggcgc gccagcaac ggaagctgc aggcgcgcgc cgagctggcc aacgggcagc cgggcttcaa aagcaacatg cccctggcgc cgggcagctt ttaggggccc cgtgcgcagc tttcttccc tggggaggaa aacatcgtgg ggggga</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>EPSPGTDGG ASNGGCEAAA DVANGQPGFK SNMPLAPGQF gaattccgaa tcatgtgcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cggaaaagca gattctcgtat attctggaat tgcattgtgc aaggagtctc ctggatcttc gcaccagct tcgggttaggg agggagtccg ggtccccggc taggccagcc cggcaggtgg agagggtccc cggcagcccc gcgcgccct ggcctatgtc ttaatgccct gcccttcat gtggccttct gaggttccc agggctggcc aggttgtttt cccaccgcgc cgcgcgctct caccocagc caaacccacc tggcagggc ggcctccagc gagacctttt gattccggc tcccgcgtc ccgcctccg gccagcccc gaggtggccc tggacagccg gacctgcgc ggccccggct gggaccatgg tgtttctctc gggaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	<p> ccaaccgcg gcaccggtga acatttccaa ggccattctg ctcggggtga tcttggggggg cctcattctt ttcggggtgc tggtaacat cctagtatc ctctccgtag cctgtcaccg acacctgcac tcagtcacgc actactacat cgtcaacctg gcggtggccg acctcctgct cactccacg gtgctgccct tctcgcct cttcgaggtc cttaggtact gggccttcgg cagggtcttc tgaacatctt ggcggaagt ggtgagctg tgctgcaccg cgtccatcat ggcctctgc atcatctcca tgcacgcta catcggtcg agctaccgc tgcgtacc aaccatctc acccagagga ggggtctcat ggctctctc tgcgtctggg cactctccct ggtcatatcc attggacccc tgttcgctg gaggcagccg gccccgagg acgagacccat ctgcagatc aacgaggagc cgggtactg tctcttcca gcgtgggt cctctacct gctctggcc atcatcctgg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggcctc aagtctggcc tcaagaccga caagtcggac tcggagcaag tgacgtccg catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcacttctca gtgaggctcc tcaagtctc ccgggagaag aaagcgcca aaacgtggg catcgtggtc ggtgcttcg tctctgtctg gctgctctt tcttagtca tggccttgg gtcttcttc cctgatttca agcctctga acagttttt aaaatagtat tttggctcgg atatctaac agctgcatca accccatcat ataccatgc tccagccaag agttcaaaa ggctttcag aatgtcttga gaatccagt tctccgaga aagcagtctt ccaacatgc cctgggctac accctgcacc cggccagcca ggcgtggaa gggcaacaca aggacatggt gcgcatccc gtggatcaa gagagacct ctacaggatc tccaagacgg atggcgtttg tgaatggaaa ttttctctt ccatgccccg tggatctgcc aggtattacag tgtccaaaga ccaatcctcc tgaaccacag ccgggtgag aagtaaaagc ttttggagg tctgctgtg tgtagggccc tcaaccccc ccttgacaa gaacctcaa gtccaaacca ttaagggtcca caccatctcc ctcaagtga acggggagga agtctaggac aggaagatg cagaggaaaag gggaataatc ttaggtacc accccactc ctctcgaa ggcagctct tcttggagg caagacagga ccaatcaag aggggacct ctgggaatg ggtgggtggt agaccacat catcaggcag cgggtaggc acagggaaga gggagggtgt ctcaacacca accagttcag aatgatacgg aacagcattt cctgcagct aatgcttct tggctactct gtgccactt caacgaaaac caccatggga aacagaattt catgcacaat ccaaaagact ataaatag gattatgatt tcatcatgaa tattttgagc acacactcta agttggagc tatttctga tggaaagtga gggattttat tttcaggctc aacctactga cagccacatt tgacatttat gccggaattc </p>	Homo sapiens
387	Alpha 2a- adrenoceptor	NM_000681	<p> THYIYNLAV ADLITSTVL PFSAlFEVLG YWAFGRVFCN IMAADVLC TASIMGLCII SIDRYIGVSY PLRYPTIVTQ RRLMALLCV WALSLVISIG PLFGWRQPAP EDETCIQINE EPGYVLFSAI GSYLPLAII LVMYCRVYV AKRESRLKS GLTKDSSE QVTLRIHRKN APAGSGMAS AKTKTHFSVR LLKFSREKKA AKTLGIWGC FVLCWLPFFL VMPISFFPD FKPSFVFKI VFWLGYLNSC INPIIYPCSS QEFKAFQNV LRIQCLRRKQ SSKHALGYTL HPFSQAVEGQ HKDMVRIPVG SRETfYRISK TDGVCWEKFF SSMPRGSARI TVSKDQSSCT TARVRSKSLF EVCCCVGPST PSLDKNHQVP TIKVHTISLS ENGEV gcgctcgccg ccacacaggc ggacggccc gagaaacccct gcctcgtcg cggctcctgg A agagctgac gtccacatgc cccggcccc ctgaggacgg ggtggtcttc atgcggcccc </p>	Homo sapiens

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96/448

40	Alpha 2a- adrenoceptor	AAA51664.1	<p>gctcacaaaa ggttaaatgga tggggggttac ctaggccctgg ctaattccccc ttccattccc aactctctct ctcttttttga agaaaaatgc taagggcagc cctgcctgccc ctcccacatc ccgctgtgaa atatacata tttttgatag cacacatagg gccccatat ctcttgccct tgggtttgat gttgaaatcc tggccctggg agagatgcct tccaggcaga cacagctgtc tgggttcaggc caagccctct tcaccagcaa ctggtgactg tccctttctg tggttatgaa gtccctctat gtcgtcgcttt tcaccagcaa aaaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt cctgacaggg aatattatgat ggtggatcaa gacataagta aatgagcctt tctgcctcac tccatgtaa atattatgat cattattctc tgatgcaactg tttgcccacg taactcactt atcagccctg tgtataaagc ctttccagtg ttcctctctc ccttccaggg ccactgcttg aagaagaata taaaacctct ctttccagtg tctctctctc ccttccaggg ccttccaggg ccactgcttg aagaagaata tgtatgtttc tatctcttat gtctgtgtgc ccttccaggg ccttccaggg ccactgcttg aagaagaata gaaatctttt agtgcctgtt tttagactcc aaggagtga aattatgttg aagaagcaaa cctgatacaa tttgcccagg gtaaacagtt tgaagaagaca aatgggcttg ccaaacgtga cagtttcttc ccaagagct gttaggtatc aaaaagtgtt cctttccccc ctccgtgctt ttctgggtga gatcatgtca ttgatgaact gcaaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcactctt atttactaa agaaaaacta atgtcagcac atgttgctaa tgacagtggg tttttttta aataaaaaag tttacagatc aaatgtgaaa taaatatgaa tggagtgtgc aaa MGSLQPDAGN ASWNGTAPG GGARATPYSL QVTITLVCLA GLMLLTVFG NVLVIIVFT P Homo SRALKAPQNL FLVLSASADI IVATLVIPFS LANEMVGYW FGKTWCEIYL ALDLVFTSS sapiens IVHLCAISLD RYWSITQALE YNLKRTPRRI KAIITCWVI SAVISFPPLI SIEKKGSGGG PQPAEPRCEI NDQKWYVISS CIGSFFAPCL IMLIVYVRIY QIAKRTRVP PSRRGPDAVA APPGTERRP NGLGPERSAG PGGAEEPLP TQLNGAPGEY APAGPRDTDA LDLEESSSD HAERPPGPRR PERGPRGK GK ARASQVKPGD SLRGAGRGR GSGRLQGRG RSASGLPRRR AGAGGQNLK RFTFVLAVI GVFEVCWFPF FTYTTLTAVG CSVPRTLEKF FFWFGYCNS LNPVIYTIEN HDFRAFKKI LCRGDRKRIV</p>	
41	Alpha 2b- adrenoceptor	NM_000682	<p>atggaccacc aggaccctca ctccgtgcag gccacagcgg ccatagcggc ggccatcacc A Homo ttcctcattc tctttaccat ctccggcaac gctctggtca tcctggctgt gttgaccagc sapiens cgtcgtctgc gcgcccctca gaacctgttc ctggtgtcgc tggccgcccgc cgacatcctg gtggccacgc tcatactcc ttctcgtctg gccaacgagc tgcgtgggcta ctggtacttc cggcgacgt ggtgcgaggt gtacctggcg ctgacgtgc tcttctgcac ctggtccatc gtgcacctgt gcgccatcag cctggaccgc tactggggccg tgagccgcgc gctggagtac aactccaaag gcaccccgcg cctcatcaag tgcatactcc tcaactgttg gctcatcgcc gcgtcatct cgtgcgcgc cctcatctac agggcgacc agggccccc gcccgcggg cgccccagt gcaagctcaa ccaggaggcc tggatcatcc tggcctccag catcgatct ttctttgctc cttgcctcat catgatcctt gtctacctgc gcatctacct gatcgccaaa cgacgcaacc gcagaggtcc cagggccaag ggggggctcg ggcaggtgta gtccaagcag ccccgacccg acctgtgtgg gcttttgccc tgcagccaac tgcagccctt ggcctctgtg gcttctgcca gagaggtcaa cgacactcg aagtcacttg gggagaagga ggagggggag acctctgaag atactgggac ccgggccttg ccaccagt gggctgccct tcccaactca ggccagggcc agaaggaggg tgtttgtggg gcattctccag aggatgaagc tgaagaggag</p>	

42 388 Alpha 2b- NP_000673.1 MDHQDPSVQ ATAAIAAIT FLILFTIFGN ALVILAVLTS RSLRAPQNLF LVSLAADIL P Homo

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gtgggttgtt gaggccagag tatcgccctg gtagtgggtg gggagctggg ccagagagg
gactgactgt gacctctgc ttgctgtcgc ccatgggacc cccagtgtt
ttgctgtga cctcttatg cgacatgcag tgggtgttt tttttttt taaactctga
gctattttat caataaagg tattttgtaa taag

adrenoceptor	Alpha 2c- adrenoceptor	389	NM_000683	Homo sapiens
VATLIIPFSL ANELLGYWF RRTWCEVYLA LDVLEFCTSSI VHLCALISLDR YWAVSRALEY				sapiens
NSKRTPRRIK CIILTWLIA AVISLPLIY KGDQGPQPRG RPQCKINQEA WYILASSIGS				
FFAPCLIMIL VYLRIYLIAM RSNRRGRPRK GPGQGSKQ PRPDHGGALA SAKLPALASV				
ASAREVNGHS KSTGEKEEGE TPEDTGTTRAL PPSWAALPNS GQGQKEGVCG ASPDEAESEE				
EEEEEEECF EPQAVPVSPA SACSPPLOQP QGSRVLATLR GQVLLGRGVG AIGGQWRRR				
AHVTREKRFT FVLAVVIGVF VLCWFPEFFFS YSLGAICPKH CKVPHGLFQF FFWIGYCNSS				
LNPVIYTIEN QDFERRAFRI LCRPWTQTAW				
ctgcaggcgg ccttgagggg ggcgcctcgc cgcagcgcgc gccccgcgcg cccgcgcgcg A				Homo sapiens
actctctccc ggcgcgcgcg ggcagagttc gaccaggcgg ccgcgggctc cggttcccg				
ccagctcccc agggcccgcg gcgcgcgcgc cccgcgcgcg ccccgctgc gctaaactcga				
cccaagtgg aagccgacgc caggcgccgc cactcgcgc cagcagaggc ggcgggcgcg				
ggcgggcggc agctccggcg agcagaggcg cggcgggcgc cggcgccccg cccgggaaag				
ggcgccgcgc cgggagcagc cggaggggg gcgcgcgcgc ggagcgccgc ccgcgcgcgc				
taagtgtgga gacgagggga gcgcgcgcgc cgggatggga ggcgagcgc cgggcccgtg				
ggcgcgcgca gccctagcgc cccctagcgc cgggatggga ggcgagcgc cgggcccgtg				
cgctcgcgcc cggctggggc tccgggacgc cggggcgctc ccgtgagcgc ggcgagcgc				
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ggaccccggg acctgcccc cttacacgct cggcagcgc ggggagcgc gcagccacgc tctccggcgc				
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cgcgccgcgc cggcgcgctc ggcgggtggc gcagcggcg gcccacatgc gagcggcgcg				
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tggcgctgt acctggcgct cgtatgtgctg ttttgacact cgtcgatcgt gcatctgtgt				
gccatcagcc tggaccgcta ctggtcggtg acgcagggcg tcgagtacaa cctgaagcgt				
acaccacgc gcgtcaaggc caccatcgtc ggcgtgtggc tcactcggc cgtcatctcc				
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ctggcgcgcg cggcagggca ggcgagaac ggcactcgc ccccgcccc gccgacgtgg				
agccggacga gacgagcga gcggccgga gcggcgcgcc cggggccgctt gcggcggggc				
ggcgggcgcg gacggcgcc gcgggggggc gcggcggtg cccgagggca ggggcggggc				
ccggggcgcg ctcagtcggg ggcgctgacc gctccaggt ccccggggccc cgggtggcgc				
ctctcgcgcg ccagctcgcg ctccgtcgag ttctcctgt cgcgcgcgcg ccggcgcgcg				
agcagcgtgt gccgcgcga ggtggcccg ggcgcgcga agcgtctcac ctttgtgtgt				

44	389	Alpha 2c- adrenoceptor	NP_000674.1	LIVFTVVGNV QVWCGVYAL VISFPPLVSL TRLSEKRAP RRGRRRAGA RARSSVCRRK FFWIGYCNSS	AVAAAAAGPNA LVVIAVLTSR DVLFTSSIV YRQPDGAAYP VGPDGAASPT EGGAGGADGQ VAQAREKRET LNPVIYTFVN	SGAGERGSGG ALRAPQNLEL HLCALSLDRY QCGLNDETWY ENGLGAAAGE GAGPGAQSG FVLAVVMGVF QDFRPSEFKHI	VANASGASWG VSLASADILV WSVTQAVEYN ILSSCIGSFF ARTGTARPRP ALTASRSPPG GGRLSPASSR VSLYGICREA	PPRQYSAGA ATLVMPFSLA LKRTPRRVKA APCLIMGLVY PTWSRTRAAQ RPRGGAPGPL SVEFFLSRRR CQVPGPLFKF	Homo sapiens
45	599	Bradykinin B1 Receptor	NM_000710	ctgtgcatgg ttccctcaaa gtgctgcoga ctgttggtct ctggcagcct aaccagttta gccaatgtgt ctggtgcacc gtgctcatct caagccgtcc gtctttctca agagtgcggg ttccttggtct caagcagtc ttctttgctt ttcaggacca tcttcacccc	catcatcctg atgtcacggc catttatcat tctctcctgc ctgatctggt actggccttt tcatgcagcat ctatggcccg gggttggtgg cagatctgaa actaccacat ggccgaaggga gctgggcccc gaggtgctgt tcactaacag aggtctggga	gccccctcta ctgtgacaa ctccatctgt ccggcggcaa gtttgtcttg cggagccctc cttccctgggt cggaaggcag ggcctctctg catcacggcc cctggcctcc tagcaagacc ttaccacttc ttgggaggag ctccctgaat actttataaa aatcttccaa	gagctccaat gctgcagaag tctctgggcc ctgaacgtgg ggcttgccct ctctgccgtg gtggccatga cagcggccgga tgcaccccc tgcatcctgc ctcggaacgc acagcgcctga tctcacgctg tggaattctt tgggcctgca tcagttaatt caatcacccc ctttctggc	gagccagctc gctgcacaga cctttttgtc ccttagggaa cctgggccaac gaatatctgg ggatcacaag gtcacccaag ctaccgcgtg ggcagggccc ggtcacctgc tgagggcctg tccataccact ggctgcgact cagcaggaga cgtggttgcc attccagggtg attggcccaac atgtctttgt gggccggctc tgctccaata cagcattgaa	Homo sapiens

cc

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPLLEL QSSNQSLFF QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P	Homo sapiens
				VELLPRLQLN VAEIYLALNA ASDLVEVLGL PFWAENIWNQ FNPWFGALLC RVINGVIKAN	
				LFISIFLWA ISQDRYRVLV HPMASGRQQR RQARVTCVL IIVVGGLLSI PTFLLRSIQ	
				VPDLNITACI LLLPHEAWHF ARIVELNIG FLPLAAIVF FNYHILASLR TREEVSRTV	
				RGPKDSKTTA LILTLVVAFL VCAPIYHFFA FLEFLFQVQA VRGCFWEDFI DLGLQLANFF	
47	600	Bradykinin B2 Receptor	NM_000623	AFNSSLNPV IYFVGRFLR TKWELYKQC TPKSLAPISS SHRKEIFQLF WRN	Homo sapiens
				atgtctctc tcagggaagat atcaatgttt ctgtctgttc gtgaggactc cgtgccacc A	
				acggcctctt ccagcgccga catgtcctaat gtccaccttc agggccacc ccttaacggg	
				acctttgcc agagcaaatg ccccaagt gtgtgtgtg gctggctcaa caccatccag	
				cccccttcc tctgggtgct gtctgtgtg gccacctag agaactctt tgtctcagc	
				gtcttctgcc tgcacaagag cagctgcac gtggcagaga tctacctggg gaacctggc	
				gcagcagacc tgatcctggc ctgcggtg ccttctgtg ccatcaccat ctccaacaac	
				ttcgactggc tctttggga gacgtctgc cgtgtgtga atgccatbat ctccatgaac	
				ctgtacagca gcatgtgtt cctgatgtg gtgagctgc accgtacct ggccttggg	
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				atctgggggt gtacgtgtc cctgagctca ccatgtgtg tgttcggac catgaaggag	
				tacagcgatg agggccaca cgtcacgct tgtgtcatca gctaccatc cctcatctg	
				gaagtgttca ccaacatgct cctgaatgtc gtgggttcc tgtgcccc tgaagtctac	
				accttctgca cgtgcagat catgcaggtg ctgcggaaca acgagatga gaagttcaag	
				gagatccaga cggagaggag ggccacggtg ctagtctgtg ttgtgtgtg gctattcatc	
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				ctctccagct gccaggaca ggcacatc caacccactg gtgttaata cagagatgc cctctcatg	
				gcctacagca acagctgct caacccactg gtgtacgtga tctgtggcaa gcgttccga	
				aagaagtctt gggaggtgta ccaggagtg tgcagaaa ggggctgcag gtcagaacct	
				attcagatgg agaactccat gggcacactg cggacctcca tctcgtgga acgcagatt	
				cacaaactgc aggactggc agggagcaga cagtgagcaa acgcccagag ggctgtgtg	
				aatttgtgta aggattgag gacagtgtt gaaatgagt ttacagcatg gcccaggaa tgccaaggag	
				acatctatgc acgaccttg gaaatgagt gaaatgagt gatgtctccg gtaaaacacc ggagactaat	
				tcctgccccg ccaaatctt caggagcat cagggagcat ggctgtgag atgggtgaa ctcacgcaca	
				gccaaggact tcccaggag tggaggagg cctgccccag caagacaact tagatctcca actgagctc	
				gctgtctctt tctctccg gctgagtgca caagtgtgtt gttgccccg gttctttaa	
				catccagctt tgggtgcaatg tagaacttg aagacaatt tctgtcata ataaaggtta agcctgagg	
				tctattcagc tagaacttg aagacaatt tctgtcata ataaaggtta agcctgagg	
				ggtccctgat acaaacctg agaccaggat ttatgtgtc cctcactga tggacaagga	
				ggtctgtgcc aaagaagaat ccaataagca catattgagc acttgtgtga tatgcagat	
				tgagcactgt aggcaagacc caagaaagag aaggagccat ctccatcttg aaggaaactca	
				aagactcaag tgggaacgac tgggactgc caccaccaga agctgttctg acgagacggt	
				cgagcagggt gctgtgggtg atatggacag cagaaggggg agaccagggt tccagctcaa	
				ccaataacta ttgcacaacc acctgtcctt gcctcagttc cttttatgt aacatgaagt	
				cgttgtgagg gtaaaaggca gtaacaggta taaagtactt agaaaaggca aggtgtgtac	

48	600	Bradykinin B2 Receptor	NP_000614.1	<p> gtacatgtga ggcatacatta cgcagacgta actgggatat gtttactata aggaaaagac actgaggtct agaaatagct ccgtggagca gaatcagtat tgggagccgg tggcgggtgtg aagcaccagt gtctggcaca cagtaggtgc tcattggctc ccttccacct gtcattccca ccaccctgag gccccaaccg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaa atatttctaa tgggtcttgc ccagagcgtc acagtgtga gacccccac caccagccgg taccttggaa gggggagagt gcaggcctgc tcagggactg ttctgtctc agcaaccaag gattgttcc tgtcaatcaa tggtttattg gaagtggtcc cagtatgagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc cagggcagca ctcaattcact tgataaatga atatttatta gctgggttgg gagctagaac ctggagagct agaacctgga gaactagaac ctggagggct. agaacctgga gaggctagaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaaac tgagctagaa gctggaggac tagaacctgg agggctggaa tctgaagggc tagaacctgg agggctggaa tctggagagc tagaacctgg agggctagaa cctggagggc tagaacctag aagggttaga acctggaggg ctggaatctg gagagctaga acctggaggg ctagaacctg gagggctaga acctagaagg gctagaacct gaggggctag aacctggcag gttagaacct agaagggcta gaacctggag agccagaacc tggagggcta gaacctggaa gggctagaac ctgtagagct agaactgga gagctagaac ccggcaggct agaacctggc agctagaac ctggagggaa tgaacctgga gggctagaac ctggagaatg agaaaaatct acatggcaaa gagccataaa atcctgacca atccaactct gaatttttaa gcaaaagcgt gaaaaaaag attccctcct taccaccaac ccactctttt tccccaccac ccactctcct ctgcctcagt aagtatctgg aggaagaaaa caggtgaaag aagaagtaaa aaccttttag tattagtatt agaataaagt caaactgtgc cacacatggt gaatgaaaaa aaaaaaaag aggtgtgtt ttgtcacaca ggcagtcct ctagcaccag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgcaatg ccatgtgggg atccacacct ggtctgaggg gcaactgagt ctgcgggaga agagcgccc tatgcatggt gtagatgccc tgataaagaa catctgtcct gtgaaagact caatgagctg ttatgttgtg aacaggaaagc atttcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaaa aaa </p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000684	<p> tgcataccgc gcccggtgtt ccccaaccac ggcccagccc tgccacacc A cccgcccccg gccctccgag ctcggcatgg ggcggggggt gctcgtctcg ggcgctccg agcccggtaa cctgtcgtcg gccgcaccg ccccgaccg cgcggccacc ggcgcgcggc tgcgtgtgccc cgcgtcgcgc cccgctcgt tccctctccc cgcgcgcgaa agccccgagc cgtgtgtctca gcagtggaca gcgggcatgg gtcgtctgat ggcgtctatc gtgctgtctca tcgtggcggg caatgtgctg gtgatcgtgg ccatgcgcaa gacgcgcgg ctgcagacgc </p>	Homo sapiens

50	635	Beta-1 adrenoceptor	NP_000675.1	<p> taccacacct cttcatcatg tccctgggcca ggcgcgacct ggtcatggggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgtggga gtacggctcc ttctctgctg agctgtggac ctacgtggac gtgctgtgag tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcact cgccttcag ctaccagagc ctgctgacgc gcgcgcgggc gcggggcctc gtgtgacccg tgtgggacct ctgggcccgt gtgtccttc tgccatcct catgcaactg tggcggggcg agagcgacga ggcgcgcgcg tgctacaacg accacaagt ctgcgactc gtcaccaacc ggcctacgc catcgccctg tccgtagtct ccttctacgt gccctgtgc atcatggcct tcgtgtacct gcgggtgttc cgcgaggccc agaagcaggt gaagaagatc gacagctgcg agcgcggtt cctcggcggc ccagcgcggc cgccctgcg ctgcctcctg ccgtcccg cgcccgccg gccgcgcgga ccccgccgc ccgcgcgcg cgccgccacc gcccgcctg ccaacggcg tgcgggtaag cggcggcctt cgcgccctgt ggcctacgc gagcagaag cgtcaagac gctgggcatc atcatggcg tcttcacgt ctgctggctg ccttcttc tggcacaagt ggtgaaggcc ttccacgcg agctggtgcc cgaccgctc ttgcttctt tcaactggtt ggtgtacgcc aactcgccct tcaaccccat catctactg cgcagcccc acttcgcaa ggccttccag gactgctct gctgcgcg cagggtgccc ggcgcgcgc acgcaccca cggagaccgg ccgcgcgctt cggtctgtct ggcgcgcgc acgcgcgcgc catcgcccg ggcgcctcg gacgacgag acgacgatgt cgtcggggcc agcgcgcgc cgcgcctgtt ggagccctgg gccggtgca acggcggggc ggcggcgac agcactga gcttgacga gccgtgcgc cccggcttcg cctcggaatc caaggtgtg ggcgcgcgc gggcgcgga ctcggggcac ggcttcccag gggaacgag agatctgtgt ttaactaaga cgtatagcag gtgaactoga agccacaat cctcgtctga atcatcgcg gcaaaagaa agccacgga cgttgacaca aaaaaggaaa ttggggaagg gatgggagag tggcttgctg atgttcttg ttg </p>	Homo sapiens
51	640	Beta-2 adrenoceptor	NM_000024	<p> MGLMALIVL LIVAGNVLVI VAIKTPRLQ TITNLFIMSL ASADLVNGLL VVFGATIVV WGRWEYGSFF CELWTSVDVL CVTASIELC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLPIIMHWR AESDEARCY NDPKCCDFVT NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKQVKIDS CERRFLGGA RPPSPSPV PAPAPPGPP RPAAAAATAP LANGRAGRR PSRLVALREQ PARLLEPWAG CNCGAAADSD SSLDEPCREG FASESKV FPSPGAASDD DDDVVVGATP PARLLEPWAG CNCGAAADSD SSLDEPCREG FASESKV actcgggaagc gcttcttca gagcacggc tggaaactggc aggcacgcg agcccttagc A accgacaaag ctgagtgctg agcacgagtc cccaccacac ccacaccaca gccgctgaat gagcttcca ggcgtccgct cgcggccgc agagcccccgc cgtgggtccg cccgctgagg cgccccagc cagtgcgtt acctgccaga ctgcgcgcca tggggcaacc cgggaacggc agcgccttct tgcggcacc caatagaagc catgcgcgcg accacgacgt caccagcaaa agggacgagg tgtgggtggt gggcatggc atcgtcatgt ctctcatcgt cctggccatc gtgtttggca atgtgctggt catcacagcc attgcaagt tcgagcgtct gcagacggtc accaactact tcatacttc actggcctgt gctgacttgc tcatgggctt ggcagtgggtg cccttggggg ccgccatat tcttatgaa atgtggactt ttggcaactt ctggtgctgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagaccct gtgctgtgac </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtgc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc ggtgatcat tctgatgtg tggattgtgt caggccttac ctcttcttg ccattcaga tgcactggta cggggccacc caccaggaag ccatcaactg ctatgccaat gagacctgct gtgacttctt cactgaacca gtctatgcca ttgctcttcc catcgtgtcc ttctacgttc cctggtgat caatgtcttc cgtactcca ggtctcttca ggaggccaaa agcgactcc agaagattga caaatctgag ggcgcttcc atgtccagaa ccttagccag gtggagcagg atgggggac ggggcatgga ctccgcagat ctccaagtt ctgcttgaag gagcacaaa cctcaagac gttaggcatc atcatgggca ctctccct ctgctggctg ccctcttca tcttaacat tctgcatgtg atccaggata acctcatccg taaggaaagt tacatctcc taaattggat aggtatgtc aattctggtt tcaatccct tatctactgc cggagcccg atttcaggat tgccttccag gagcttctgt gctgagcag gtcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taactgtg tgtgaagacc tcccaggcac ggaagacttt gtgggccatc aagttactgt ccttagcgat aacattgatt cacaaggag gaattgtagt acaaatgact cactgctgta agcagtttt tctactttta aagaccccc ccccccac agaacactaa acagactatt taacttgagg gtaataaaact tagaataaaa ttgtaaaaat tgtatagaga tatgcagaag gaagggtc ctctgcctt tttattttt ttaagctgta aaaagagaga aaacttattt gattgattat ttgttatttg tacagtccag ttctctttg catggaattt gtaagtttat gtctaaagag cttagtctct agaggacctg agtctgctat atttcatga cttttccatg tatctacctc actattcaag tattaggggt aatatattgc tgtgtgtaat ttgtatctga aggagatttt cgtgtaacat' ggactcttcc ttatttgcctc gagtatctcg gacttttcag ctgtgaacat' ggactcttcc cccactctc ttatttgcctc acacggggta ttttaggcag ggatttgagg agcagcttca gttgttttcc cgagcaaaag tctaaagttt acagtaata aatgtttga ccatg</p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p>SLIVLAIVFG NVLVITAIK P FGNFWCEFWT SIDVLCVTAS SGLTSFLPIQ MHWYRATHQE RVFQEAQRQL QKIDKSEGRF TFTLCWLPFF IVNIVHVIQD CLRRSSLKAY GNGYSSNGNT SQRNCSND SLL</p> <p>gctactcctc ccccaagagc ggtggcacg agggagtgg ggtggggga ggtgagcgc A tctggctggg acagctagag aagatggccc aggtgggga agtcgtctc atgcttgct gtccctccc ctgagccagg tgatttgga gacccctcc tctcttctt cctaccgccc ccacgcgcga cccggggatg gctccgtggc ctacagagaa cagctctctt gccccatggc cggacctccc caccctggcg cccaataccg ccaacaccag tgggctgcca ggggttccgt gggagggcgc cctagccggg gccctgtgg cgtggcggt gctggccacc gtggaggga acctgtggt catcgtggc atcgctgga ctcagagact ccagacctg accaacgtgt tctgtacttc gctggccga gccagctgg tbatgggact cctggtggtg ccgccggcgg ccacttggc gctgactgg cactggcgt tgggcccac tggctgcag ctgtggacct cgtgtgtgtg accgccagca tgggcccct gtcgcccctg gccgtggacc</p>	Homo sapiens

54	Beta-3 adrenoceptor	NP_000016.1	MAPWHENSS LAPWDLPTL APNTANTSLG PGVPWEAALA GALLALAVLA TVGNNLLVIV P ATAWTPRLQT MTNVFVTSIA AADLVMLGLV VPPAATIALT GHWFLGATGC ELWTSVDVLC VTASIELICA LAVDRYLAVT NPLRYGALVT KRCARTAVLV VMVSAAVSF APIMSQWVRV GADAEQORCH SNPRCCAFAS NMPYVLLSSS VSFYPLPLVM LFVYARFVW ATRQLRLLRG ELGRFPPEES PPAPRSRAP APVGTCAPE GVPACGRRA RLLPLREHRA LCTLGLIMGT FTLCWLPPFL ANVLRALGSP SLVPGPAFLA LNWLGVANSA FNPLIYCRSP DFRSAFRLL	Homo sapiens
643			gctacctggc tgtgaccaac ccgtgcgtt acggcgcaat ggtaccaaag cgctgcgcc ggacagctgt ggtcctggtg tgggtcgtg cggccgcggt gtcgtttgcg cccatcatga ggcagtggg gcgcgtagg gccgacgcg aggcgcagcg ctgccactcc aaccgcgct gctgtgcctt cgcctcaac atgcccacg tgcgtctgtc ctctccgtc tccttctacc ttctctctt cgtgatgtt ttcgtctac cgcgggtttt cgtgtggct acgcgcagc tgcgttgcg gcgcggggag ctgggcgct ttccgctccg gtagtctccg cggcgccgt cgcgctctt ggcgcgggcc ccggtgggga cgtgcgctcc gccgaaggg gtgcgcgct ggcgccggcg gccgcgcgc ctctgcctc tccgggaaca cggggccctg tgacacctgg gtctcatcat gggcacctc actctctgt ggttgccctt ctcttgccc aactgtctg ggccttggg gggccctct ctagtcccg gccggcttt ccttgccctg aactggctag gttatgcaa ttctgcttc aaccgctca tctactgccc cagccggac ttctgcagc ccttcgcgg tcttctgtc cgtgcggcc gtcgctgccc tccggagccc tgcgcgcg ccgcgcggc cctctccc cgggcgttc ctgcggccc gagcagccc gcgcagccc ggcttggca acggtcttg gtagggcac ccatcacccg gcttgccctg gcagtcagt gcaacaactc tgttgatcag aactgtgga aaacctctg cctctgttca gaatgagtc catgggattc cccggctgtg acactctac ctccagaacc tgacgactgg gccatgtgac ccaaggagg atccttaca agtgggtttt caccatcctc ttgctctctg tctgagagat gtttctaaa cccagcctt gaacttact cctccctcag tggtagtgtc cagggtgccg ggagcagcag gctggcttg gtagggcac ccatcacccg gcttgccctg gcagtcagt agtcttagg gcaaaagag ctcccctgt tccattcct ctgccacca aacctgatg agacctagt gttctcagg ctctgtgccc caggctgaga gcagcaggt agaaaagacc agatttggg gttttatctc tggttccctt atactgctc tcaagcagtg gctctctca cttagccat ggaatggctc cgtactacct cacagcagtg tcagaaggac ttccgccagg tttgggagc tccagggttc ataagaagt gaaccattag aacagatccc ttctttcct tttgcaatca gataaataa tatcactgaa tgcagttcat cctcgccca ctctccctc gttggtttct tttcataat ccacttactc cctcccttc tactctgccc tggcttttga cagaggcagt aaattaggc taatcctcac tcttttcttc ctactctca tcaaacaaaa aatgaaaaagt ctgtctggac gaaggggagt gacttgagc ctttgatatac ttgtccccc accttccctg aaactcttga aatccagttg ccattgagta gcaaaagcac gctccccc ggacttggac agaggccca cagggggatg ggtggctgt ggcaggttt agggcagggg gcatttggcc cctccatgct ataatecagt ggtgccttac atggtgtgtg tgtgtgtgtg tgcgtgtgtg tgtgtgtgtg tgtgtctgga ggcacaggca caaagcattg ctggggttg tcaaatgtct tgtgtcataa atatatctg atgttccca gccttccac aacctctacc ttcccaactca ccttcccag ctacaaaaat ctgtattatc ctcttaagt aaactggag ttac	

55	688	Opsin, blue- sensitive	NM_001708	<p>CRGRRRLPPE PCAAARRPALF PSGVPAARSS PAQPRRLCQRL DGASWGVVS</p> <p>ggcatccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaata tctcttcagt A</p> <p>ggggccgtgg gatgggcttc agtaccacat tgcccctgtc tgggcttctt acctccaggc</p> <p>agctttcatg ggcactgtct tccttatagg gtcccactc aatgccatgg tgcgtgtggc</p> <p>cacactgcgc tacaaaaagt tgcggcagc cctcaactac attctgttca acgtgtcctt</p> <p>cggaggcttc ctctctgca tcttctctgt tctccctgtc ttctgtgcc cgtgtaacgg</p> <p>atacttcgtc ttcgggtgcc atgtttgtgc ttgggagggc ttccctggga ctgtagcagg</p> <p>tctggttaca ggatgggtcac tggccttctt ggccctttgag cgctacattg tcatctgtaa</p> <p>gcccttcggc aacttcgct tcagctccaa gcatgcactg acggtggtcc tggctacctg</p> <p>gaccattggg attggcgtct ccattccacc ctctcttggc tggagccgggt tcatccctga</p> <p>gggctgcag tgttccctgt gccctgactg gtacaccgtg ggcaccaaatt accgcagcga</p> <p>gtccatatcg tggttccctc tcatcttctg cttcattgtg cctctctccc tcatctgctt</p> <p>ctccataact cagctgctga gggccctgaa agctgttgca gctcagcagc aggagtcagc</p> <p>tacgacccag aaggctgaac gggaggtgag cgcgatgggt gttgtgatgg taggatcctt</p> <p>ctgtgtctgc tacgtgccct acgcgccctt cgcctatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcctg tcaccattcc ttcattcttc tccaagagtg cttgcatcta</p> <p>caatcccatc atctactgct gccatgacag atgaatccga ccatgacagc tcccaaaaa cagaagtctt</p> <p>gtgtgggaag gcatgacag tctacccaag ttggcccaaa ctgaggaccc aatatggcc tgtttgcaac</p> <p>tactgtctcg tctacccaag tttgccccaa ctgaggaccc aatatggcc tgtttgcaac</p> <p>agctagaatt aaattttact t</p>	Homo sapiens
56	688	Opsin, blue- sensitive	NP_001699.1	<p>MRKNSSEEFY YLKNSSVGP WDGPQYHIAP VWAFYLQAAF MGTVELIGFP LNAMVLVATL P</p> <p>RYKLRQPLN YILNVSVFG FLICFVSFP VFVASCNGYF VFGRHVCALF GFLGTVAGLV</p> <p>TGWSLAFALF ERYIVICKPF GNFRSSKHA LTVVLATWTI GIGVSIPIFF GWSRFIPEGL</p> <p>QCSGPDWYT VGTKYRSY TWFLFICFI TPLSLICFSY TQLLRALKAV AAQQQESATT</p> <p>QKAREVSRM VVMVGSFCV QACIMKVVCG KAMTDESDTC SSQKTEVSTV SSTQVGN</p> <p>IIYCFMKNQF QACIMKVVCG KAMTDESDTC SSQKTEVSTV SSTQVGN</p> <p>gagtatctgg atgtcttga ttttctccc attctgttct gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact gcatttgaac tgagaagaag</p> <p>aaatattaaa gacacagtct tcagaagaaa tggctcaaa ggcagcctcac tcacctaatac</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtgtgt tctaacgata</p> <p>acacaaaataa aggatggagc ggggacaaact ctcaggaat agaagcattg tgtgccatct</p> <p>atattactta tgcgtgtgac atttcagtg gcactccttg aaatgctatt ctcatcaaa</p> <p>tctttttcaa gacaaaatcc atgcaaacag ttccaaatat ttctcatcacc agcctggctt</p> <p>tggagatct tttacttctg ctacttctg tgcagtgga tgcaactcac taccttgcag</p> <p>aaggatggct gttcgggaaga attggttga aggtgtctct ttctatccgg ctcaacttctg</p> <p>tgggtgtgtc agtgttcaca ttaacaattc tcagcgctga cagatacaag gcagtttgtga</p> <p>agccacttga ggcacagccc tccaatgcca tctgaagac ttgtgtaaaa gctggctgcg</p> <p>tctggatcgt gtctatgata ttgtctctac ctgaggtctat attttcaaat gtatacactt</p> <p>ttcgagatcc caataaaaa atgacatttg aatcatgtac ctctatcct gtctctaaga</p> <p>agctcttgca agaaatacat tctctgtgtg gttcttagt gttctacatt attccactct</p> <p>ctattatctc tgtctactat tctctgtatt ctaggacccct ttacaaaagc acctgaaca</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727		Homo sapiens

58	692	Bombesin Receptor Subtype-3	NP_001718.1	<p> tacctactga ggaacaaagc catgcccgtg agcagattga atcccgaag agaattgcca gaacggattt ggtgttggtg gctctgtttg cctctgtctg gttgccaaat cactctctgt acctctacca ttcattcaact tctcaaacct atgtagacc ccttgccatg catttcattt tcaccatttt cctcggggtt ttggctttca gcaattcttg cgtaaaacccc ttgtctctct actggctgag caaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg agcgccctga cctctctgtt gctgacacct ccttaccac cttggctgtg atgggaaacgg tccccggcac tgggagcata cagatgtctg aaattagtg gacctcgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgctgc ttctctctcc agcgtgtgta tccgactcta agctgtgtgc agg GILGNAILIK VFFKTKSMQT QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P KVLSFIRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC VWIVSMIFAL PEAIFSNVYT FRDPNKNMTF ESCTSYPSK KLLQEIHSLL CELVPIIPL SIISVYSLI ARTLYKSTLN IPTEQSHAR KQIESRKRIA RTVLVLVLF ALCWLPNHLH YLYHSFTSQT YVDPSSAMHEI FTIFSRVLA F SNCSVNPFL YWLSKSFQKH FRAQLFCKKA ERPEPPVADT SLTTLAVMGT VPGTGSIQMS EISVTSFTGC SVKQAEEDRF gctgccacct cctctagagg cactggcggg gagcctctca acataagaca gtgaccagtc A tggtagacta cagccggcac agccatgaac taccgctaa cgctgaaat ggacctcgag aacctggagg acctgttctg ggaactggac agattggaca actataacga cactccctg gtggaaaatc atctctgccc tggcacagag gggccctca tggcctcctt caaggccgtg ttcgtgccc tggcctacag cctcatcttc cctcctggcg tgatcggcaa cgtcctgggtg ctggtagacc tggagcggca cggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg cgaacctct cctggctctt gctggctctt ttgccgtggc cgaggctctt gtgggctggg tccctgggac cttcctctgc aaaaactgta ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcctggtg accgtacctt ggccattgtc cacgccgtcc atgcctaccg ccaccgcgc cctctctcca tccacatcac ctgtgggacc atctggctgg tgggttctct ccttgccctg ccagagattc tcttgccaa agtcagccaa ggccatcaca acaactcctt gccacgttg acccttctcc aagagaacca agcagaacg catgcctggt tcacctcccg attcctctac catgtggcg gattcctgct gcccatgctg gtgatgggt ggtgctacgt gggggtagt cacaggttg gccaggccca gcggcgcctt cagcggcaga agcagtcag ggtggccatc ctggtgacaa gcattctctt cctctgctgg tcacctacc acatcgtcat cttcctggac accctggcga ggtgaaggc cgtggacaaat acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagt cctgggcctg gccactgct gcctcaacc catgctctac actttgcgc gctgaagt cgcagtgac ctgtcgcggc tctgacgaa gctgggctgt accggccctg cctcctctgt ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccacgttc taggtccacag tgtccccctt tattgctgct ttctctggg gcaggcagt atgctggatg ctccttccaa caggagctgg gatcctaagg gctcaccgtg gctaagatg tcttaggagt atctcattt ggggtagcta gaggaacca ccccatctc tagaacatcc ctgccagctc ttctgccggc cctggggtgta ggtggagcc caggagcgg aagaagctc aaaggcacag tgaaggctgt ccttaccat ctgcacccc ctgggctgag agaacctcac gcacctccca </p>	Homo sapiens
59	729	CXC Chemokine Receptor 5	NM_001716	<p> tacctactga ggaacaaagc catgcccgtg agcagattga atcccgaag agaattgcca gaacggattt ggtgttggtg gctctgtttg cctctgtctg gttgccaaat cactctctgt acctctacca ttcattcaact tctcaaacct atgtagacc ccttgccatg catttcattt tcaccatttt cctcggggtt ttggctttca gcaattcttg cgtaaaacccc ttgtctctct actggctgag caaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg agcgccctga cctctctgtt gctgacacct ccttaccac cttggctgtg atgggaaacgg tccccggcac tgggagcata cagatgtctg aaattagtg gacctcgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgctgc ttctctctcc agcgtgtgta tccgactcta agctgtgtgc agg GILGNAILIK VFFKTKSMQT QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P KVLSFIRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC VWIVSMIFAL PEAIFSNVYT FRDPNKNMTF ESCTSYPSK KLLQEIHSLL CELVPIIPL SIISVYSLI ARTLYKSTLN IPTEQSHAR KQIESRKRIA RTVLVLVLF ALCWLPNHLH YLYHSFTSQT YVDPSSAMHEI FTIFSRVLA F SNCSVNPFL YWLSKSFQKH FRAQLFCKKA ERPEPPVADT SLTTLAVMGT VPGTGSIQMS EISVTSFTGC SVKQAEEDRF gctgccacct cctctagagg cactggcggg gagcctctca acataagaca gtgaccagtc A tggtagacta cagccggcac agccatgaac taccgctaa cgctgaaat ggacctcgag aacctggagg acctgttctg ggaactggac agattggaca actataacga cactccctg gtggaaaatc atctctgccc tggcacagag gggccctca tggcctcctt caaggccgtg ttcgtgccc tggcctacag cctcatcttc cctcctggcg tgatcggcaa cgtcctgggtg ctggtagacc tggagcggca cggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg cgaacctct cctggctctt gctggctctt ttgccgtggc cgaggctctt gtgggctggg tccctgggac cttcctctgc aaaaactgta ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcctggtg accgtacctt ggccattgtc cacgccgtcc atgcctaccg ccaccgcgc cctctctcca tccacatcac ctgtgggacc atctggctgg tgggttctct ccttgccctg ccagagattc tcttgccaa agtcagccaa ggccatcaca acaactcctt gccacgttg acccttctcc aagagaacca agcagaacg catgcctggt tcacctcccg attcctctac catgtggcg gattcctgct gcccatgctg gtgatgggt ggtgctacgt gggggtagt cacaggttg gccaggccca gcggcgcctt cagcggcaga agcagtcag ggtggccatc ctggtgacaa gcattctctt cctctgctgg tcacctacc acatcgtcat cttcctggac accctggcga ggtgaaggc cgtggacaaat acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagt cctgggcctg gccactgct gcctcaacc catgctctac actttgcgc gctgaagt cgcagtgac ctgtcgcggc tctgacgaa gctgggctgt accggccctg cctcctctgt ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccacgttc taggtccacag tgtccccctt tattgctgct ttctctggg gcaggcagt atgctggatg ctccttccaa caggagctgg gatcctaagg gctcaccgtg gctaagatg tcttaggagt atctcattt ggggtagcta gaggaacca ccccatctc tagaacatcc ctgccagctc ttctgccggc cctggggtgta ggtggagcc caggagcgg aagaagctc aaaggcacag tgaaggctgt ccttaccat ctgcacccc ctgggctgag agaacctcac gcacctccca </p>	Homo sapiens

60	729	CXC Chemokine Receptor 5	NP_001707.1	<p> MNYPLTLEMD LENLEDLFEW LDRLDNYNDT SILVENHLCPA TEGPLMASFK AVFVPVAYSL P IFLLGVIGNV LVLVILERHR QTRSSTETFL FHIAVADLLL VFILPFAVAE GSVGWVLGTF sapiens LCKTVIALHK VNFYCSLLL ACIAVDRYLA IVHAVHAYRH RRLLSIHITC GTIWLVGFL ALPEILFAKV SQGHNNSLP RCTFSQENQA ETHAWFTSRF LYHVAGFLLP MLMGWVCYVG VVHRLRQQR RPQRQKAVRV AILVTSIFFL CWSPHYHIVF LDTLARKAV DNTCKLNGSL PVAITMCEFL GLAHCCLNPM LYTFAGVKFR SDSLRLTLKL GCTGPASLCQ LFPSWRRSSL SESENATSLT TF ggcagcagcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagaag gtgaacgaga gggcccttgg ggcacactg ctgccccctc tgtactcctt ggtattgtc atggccctgg ttggaacat cctggtggtc ctggtccctg tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctcccttctt ggatcgacta caagtgaag gatgactggg tttttggtga tgccatgtgt aagatccctt ctgggtttta ttacacaggc ttgtacagcg agatcttttt catcatcctg ctgacgattg acaggtacct ggccatgctc cagccctgt tgtccttggc ggcacggacc gtacattttt ggtcatcac cagcatcatc atttggccc tggccatctt ggcctccatg ccaggcttat actttccaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcac aaagcctacg agagtggag ctgtttcagg </p>	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	<p> ggcagcagcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagaag gtgaacgaga gggcccttgg ggcacactg ctgccccctc tgtactcctt ggtattgtc atggccctgg ttggaacat cctggtggtc ctggtccctg tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctcccttctt ggatcgacta caagtgaag gatgactggg tttttggtga tgccatgtgt aagatccctt ctgggtttta ttacacaggc ttgtacagcg agatcttttt catcatcctg ctgacgattg acaggtacct ggccatgctc cagccctgt tgtccttggc ggcacggacc gtacattttt ggtcatcac cagcatcatc atttggccc tggccatctt ggcctccatg ccaggcttat actttccaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcac aaagcctacg agagtggag ctgtttcagg </p>	Homo sapiens

62	735	C-C Chemokine Receptor 1	NP_001286.1	<p>ctctgaaact gaacctctttt gggtgggtat tgccttttgtt ggtcatgatac atctgtctaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt tgatttttgt catcatgatac atcttttttc tcttttgac cccatacaat ttgactatac ttattctgt ttccaagac ttctgttca cccatgagtg tgagcagagc agacatttg acctgctgt gcaagtacg aggttcgga agtacctgca ctgctgtgtc aaccagtg tctacgctt cgttggtgag aggttcgga agtacctgca ctgctgtgtc aaccagtg tggtgtgca cctggttaa tggtccctt tctctccgt ggacaggctg gagagggtca gctccacatc tccctccaca ggggagcatg aactctctg tgggttctga ctcagaccat aggaggccaa cccaaataa gcaggctga cctgccaggc acactgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tgggatagag agggaatga atggtggcct gggcctctg aggtctctg ggcctcagtc tttccatga actctcccc tggtagaaag aagatgaatg agcaaaacca aatattccag agactgggac taagtacc agagaaggc ttggactca gcaagattc agatttgtga ccattagcat ttgtcaacaa agtaccacac ttcccactat tggctgcaca aaccaatga accagtagt ggtgacttg ggtccattc aaagtgagct cctaaagccat gggagacact gatgtatgag gaattctgt tcttccatca cctcccccc cccgccacc tcccactgcc aagaacttg aaatagtgt tccacagtg actccactc cgcagcctt ggtctcttg aatctgggg aacatagaac tgctccctt tcaactccac cgcaggtatt ggtctcttg aatctgggg aacatagaac tcatgacgga agatttgaga cctaagcaga aatagaaatg ggggaactac tgctggcagt ggaactaaga agcccttag gaagaattt tatatccact aaaaataac aatcaggga gtgggctaag cagggccat atgaataaca tgggtgtctt ttttaaatag ccataaagg gagggactca cacttccat ttaccctct tctgtgact ttttcagaa tctctctct tttcaagttg ggtgatatg ttgtagattc taatggctt attgcagcga ttaataacag gcaaaaggaa gcagggttg tttccctct cctctgctt catctaaagc tctggtttt atgggtcaga gttccgactg ccatcttga cttgtcagca aaaaaaaa aaaaa METPNTTETY DTTTEFDYD ATPCQKNER AFGAQLLPL YSLVFVIGLV GNILVVLV P QYKRLKNMYS IYLLNLAISD LFLFTLPFW IDYKLDKDWV FGDAMCKILS GFYTGLYSE IFFIILLTID RYLAIVHAFV ALRARTVTFG VITSIIWAL AILASMPGLY FSQTQWETH HTCSLHPHE SLREWKLFOA LKLNLFGLVL PLVMIICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLT HECEQSRHLD LAVQTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRV AVHLVKWLPF LSVDRLEHVS STSPSTGEHE LSAGE</p>	Homo sapiens
63	737	C-C Chemokine Receptor 3	NM_001837	<p>ttttctctt tctatcacag ggagaagtga aatgacaacc tcactagata cagttgagac A ctttggtacc acatccctact atgatgacgt gggcctgctc tgtgaaaaag ctgataccag agcactgatg gccagtttg tgcctccgct gactccctg gtgttcaatg tggcctctt gggcaatgtg gtggtggtga tgatcctcat aaaaacaggg aggtccgaa tlatgaccaa catctacctg ctcaacctgg ccatctcga cctgctcttc cctgacacc ttcattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtga agtccctctc agggttttat cacacaggct tgtacagcga gatcttttcc ataactctgc tgacaatcga caggtacctg gccattgtcc atgtgtgtt tgcctctcga gcccgactg tcaattttg tgtcatcacc agcatcgtca cctggggcct ggcagtgcta gcagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactcttgc agtctctt acccagagga</p>	Homo sapiens

Homo
sapiens

NP_005499.1

738

66

C-C
Chemokine
Receptor 4

gtccagcctg gcaaggggttc acctggggctg aggcatacctt cctcacacca ggccttgctg
caggcatgag tcagctctgat gagaactctg agcagtgctt gaatgaagtt gtaggtaata
ttgcaaggca aagactattc ccttctaacc tgaactgatg ggtttctcca gagggaaattg
cagagtactg ctgtaggag taaatcctg tggcaaatgg gccccg
NMPTDIADTT LDESIYSNY IYESIPKPT KEGIKAFGEL FLPLYSLVF VGLLGNV P
VLVLFKYKRL RSMTDVLLN LAISDLLFV SLFWGYAA DQWVFLGLC KMSWMLVG
FYSGIFFVML MSIDRYLAIV HAVFSRLART LTYGVITSLA TWSVAVFASL PGFLFSTCT

NM_001838

741

67

C-C
Chemokine
Receptor 7Homo
sapiens

gtgagacagg ggtagtcga ggcggggcac agccttctg tgtggttta cgcgccagag A
agcgtcatgg acctgggaa accaatgaa agcgtgctg tgggtgctct ccttgctatt
ttccaggtat ccttggtga agtagggtc acggacgatt acatcggaga caacaccaca
gtggactaca cttgttcga gtctttgtgc tccaagaagg acgtgcggaa ctttaaagcc
tggttcctcc ctatcatgta ctccatcatt tgtttcgtg gcctactggg caatgggctg
gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctacctgctc
aaactggcgg tggcagacat cctcttctc ctgaccttc cctctgggc ctacagcgcg
gccaagtccct gggctctcgg tgtccacttt tgcaagctca tctttgacct ctacaagatg
agcttcttca gtggcatgct cctacttctt tgcatcagca ttgaccgcta cgtggccatc
gtccaggctg tctcagctca cgcgccacct gcccgcgtcc ttctcatcag caagctgtcc
tgtgtgggca tctggatact agccacagt ccttccatcc cagagctcct gtacagtgc
ctccagagga gcagcagtga gcaagcagt gcagctctc tcacacaga gcagtggag
gcctttatca ccattccagg gcccagatg gtgactggtt ttctgtccc cctgctggcc
atgagcttct gttacctgt catcatccg acctgctcc aggcacgcaa ctttgagcgc
aacaaggcca tcaagtgat catcgtctg tctgtggtt tcatagtctt ccagctgccc
tacaatgggg tggctcctgg ccagacggtg gccaaactta acataccag tagcacctgt
gagctcagta agcaactcaa catcgctac gacgtcacct acagcctggc ctgcgtccgc
tgcgtcgtca acctttctt gtacgccttc atcggcgtca agttccgcaa cgtctcttc
aagctcttca aggacctggg ctgctcagc caggagcagc tccggcagtg gtcttctgt
cggcacatcc ggcgctcctc catgagtgtg gaggccgaga ccaccacac cttctccca
taggcgactc ttctgcttg actagagga cctctcccag ggtccctggg gtgggagatg
ggagcagatg caatgactca ggacatccc cgcgcaaaa cgtctcaggg aaagcagat
ctccctcag agtgcaagcc ctgctccaga agttagcttc accccaatcc cagctacctc
aaccaatgcc gaaaagaca gggctgataa gctaacacca gacagacaac actgggaaac
agaggtattt gtcccctaaa ccaaaaactg aaagtgaag tccagaaact gttcccactt
gctggagtga aggggccaag gaggtgagt gcaaggggagc tgggagtggtc ctgaagagtc
ctctgaatga acctctggc ctcccacaga ctcaaatgct cagaccagct cttccgaaaa
cggagcctta tctccaagac cagagatagt gggagagactt cttggcttgg tgaggaaaaa
cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tcttactgt
cctccaagcc agcgggaatg gcagctgcca cgcgcctta aaagcacact catccctca
cttgccgctg cgcctccca ggctctcaac aggggagagt gtggtgttct ctgcaggcca

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p>ggccagctgc ctccgctga taaaagccac actctgggct ccagagtggg gatgacatgc actcagctct tggctccact gggatggag gagaggacaa gggaaatgtc agggcgggg agggtagacag tggcgcccca agggcacgag cttgttcttt gttctttgtc acagggactg aaaacctctc ctcatgttct gtttcgatt cgttaagaga gcaacatttt acccacacac agataaaagt ttcccttgag gaaacaaag ctttaaaatg MDLGKPMKSV LVVALLVIFQ VCLCQDEVTD DYIGDNTTVD YTLFESLCSK KDVRNFKAWF P LPIMYSIIIF VGLLGNGLVW LTYIYFKRLK TMTDTYLLNL AVADILFLLT LPFWAYSAAK sapiens SWVFGVHFCF LIFALYKMSF FSGMLLLLCI SIDRYVAIVQ AVSAHRHRAR VLLISKLSKV GIWILATVLS IPELLYSDLQ RSSSEQMRC SLITEHVEAF ITIQVAQMI GFVLVPLLLAMS FCYLVIIRTL LQARNFERNK AIKVIIVVV VFIVFQLPYN GVVLAQTVAN FNITSSSTCEL SKQLNIAYDV TYSLACVRCC VNPFLYAFIG VKFRNDLFKL FKDLGCLSQE QLRQWSSSCRH IRRSSMSVEA ETTTTFSP</p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p>TTTAAATTTA AAAACTTTAT TGGAAATAGA TGTAGCAGC AGTGAACAGG GCATGGGACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA sapiens CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAATGATGT CTGACCTCCT TATATATGTA AAAAATATAC CTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTTGA AGTTTTTAAC ATCGATGATG GGTCTCCAGT TGTTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCAAAGGTGA TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAANAAT ACGTGATGGG CTTCTTGAAG GACTAGAGCA GTGTGTATTC AAACAGAAC ACAAATGAC GTACGTTTAT TGCCAAATAT GCTGTTGCCA ACACTTAGAA CACAATGACT GGAGACACAG TTGTGCGTGC A CTGGCACAAAC CTCCAGCCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT sapiens TGAAGGATTT TGTATATCAA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAGA ATATTTTAAC ATCATTATG AGGCTCCAGT TATTCATTCA TTGACCAATG GTATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCCTATAA ATGACACAGT GAAAA</p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac ttgtgaaga A aggaattggc aacactgaaa cctccagaaac aaaggctgtc actaagggtcc cgctgccttg sapiens atggattata cacttgacct cagtgtagaca acagtgaccg actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaaatg gcaagtgtct ccttgctgtc ttttattgcc tctgttttgt attcagtctt ctgggaaaca gcctggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgcttt ttgtctcttc ctccccctt cagacctact atctgtgtga ccagtgggtg tttgggactg taatgtgcaa agtgggtgtct ggcctttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtggggac aggtacctgg ctgtgtgtcca tgccgtgtat gcctaaaagg tgaggacgat caggatgggc acaacgtgtg gcttggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccaacttc aaaatgaaca ttttaggtt gtgtatccca ttcacctatc ttatgttctg ctacattaaa</p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac ttgtgaaga A aggaattggc aacactgaaa cctccagaaac aaaggctgtc actaagggtcc cgctgccttg sapiens atggattata cacttgacct cagtgtagaca acagtgaccg actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaaatg gcaagtgtct ccttgctgtc ttttattgcc tctgttttgt attcagtctt ctgggaaaca gcctggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgcttt ttgtctcttc ctccccctt cagacctact atctgtgtga ccagtgggtg tttgggactg taatgtgcaa agtgggtgtct ggcctttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtggggac aggtacctgg ctgtgtgtcca tgccgtgtat gcctaaaagg tgaggacgat caggatgggc acaacgtgtg gcttggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccaacttc aaaatgaaca ttttaggtt gtgtatccca ttcacctatc ttatgttctg ctacattaaa</p>	Homo sapiens

72	C-C Chemokine Receptor 8	NP_005192.1	<p>atcctgcacc agctgaagag gtgtcaaaac cacacaaga ccaaggccat caggttggtg</p> <p>ctcattgtgg tcattgcatc ttacttttc tgggtcccat tcaacgtgggt tcttttcctc</p> <p>acttccttgc acagtatgca catcttggat ggatgtagca taagccaaca gctgacttat</p> <p>gccacccatg tcacagaaat catttccttt actcactgct gtgtgaaccc tgttatctat</p> <p>gcttttggttg gggagaagtt caagaaacac ctctcagaaa tattcagaa agttgcagc</p> <p>caaatcttca actacctagg aagacaaatg cctaggaga gctgtgaaaa gtcacatccc</p> <p>tgccagcagc actcctccc ttctccagc gttagctaca ttttggagg atcaatgaag</p> <p>actaaatata aaaaacattt tcttgaatgg catgctagta gcagtggagca aagggtggtg</p> <p>tgtgaaaggt ttccaaaaa agttcagcat gaaggatgcc atatatgttg ttgccaacac</p> <p>ttaaaacaca atgactggag acatagtgtg gcctgctgg cacacatca agcctgtgat</p> <p>tgtgtttatt gatgatgttg acaagtgtg aactttaag gattctgtat gccaagtga</p> <p>aaaaaagat gctgacctc cttcatatgc aaaaatatac cttcagagac gtgcagtagg</p> <p>ctggaagaag tggatatgga agtttgaca tcaatgatga ggctccagtt gtctatgcat</p> <p>tgactgatgg tgaatgggt ggaagtattc tgaatcaagg tgatttgtat tatagtaca</p> <p>atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaaat</p> <p>ttgacaggct tatggaagga ctacagcagc acgattcat aacagaacaa gaaattatct</p> <p>cagcttataa aatcaaacag agacttctag acaaaaacca ttgttgatga ggcagatgcc</p> <p>tctagaagag acgtttaaaa gccatcaaac acaatgcctc atcttccctg gaggaccac</p> <p>ttctgatccc ctcaactgtg tctgatgttt ctctcatgt agaaaaataa aaataaaaa</p> <p>aaaaaatat atattggat taactacag gaaaaataa aaaaatataat agtggacagt</p> <p>aacctttcaa tcaaaactca gtatcataa tagagactga aaacttgccg ttattgattg</p> <p>ttgttattaa cagctgatac aggtattctg ctgatgctac tgctgcttag ttaccatgaa</p> <p>caggtttttt cactattaat ggtgcgtcat attttttact tttaagtact tacgtgtgag</p> <p>taagtgaag aaaaatgatt ctatcagta gtatcaatga tttactcaat atctgaatca</p> <p>ccttgattca gaaccattc agctgtttca ccatcagatga atgaataaca gcctcattga</p> <p>tgtaaaaaac ttcaatatcc acttctttca gctactgta gactctggaa gtatactttt</p> <p>tgcatatgta aggaagtcag attttttttt</p>	Homo sapiens
73	CXC Chemokine Receptor 3	NM_001504	<p>VVCKLRISIT DVYLLNLALS FSSPCDAELI QTNCKLLAV FYCLLFVPSL LGNSLVILVL P</p> <p>MFITILMSVD RYLAVVHAVY ALKVRTIRMG TTIQLAVWLT AIMATPDLV FYQVASEDGV</p> <p>LQYSFYNQO TLKWKIFTNF KMNILGLLIP FTIFMFCYIK ILHQLKRCQN HNKTKAIRLV</p> <p>LIVVIASLLF WVPFNVVLF L TSLHSMHILD GCSISQQLTY ATHVTEIISF THCCWNPVIY</p> <p>AFVGEKFKKH LSEIFQKSCS QIFNYLGRQM PRESCEKSSS CQQHSSRSSS VDYIL</p> <p>ccaaccacaa gcaccaaac agaggggcag gcagcacacc acccagcagc cagagcacca A</p> <p>gccagccat ggtccttgag gtgagtgc accaagtgtc aaatgacgc caggttgccg</p> <p>ccctctgga gaacttcag ccttctctatg actatggaga aaacagagat gactcgtgct</p> <p>gtacctccc gccctgccc caggacttca gctgaaactt cgaccgggccc ttctgcccag</p> <p>ccctctacag cctcctctt ctgctggggc tgcctgggcaa cggcgccgtg gcagccgtgc</p> <p>tgtgagccg gcggacagcc ctgagcagca gcagacactt cctgctccac ctagtgtag</p> <p>cagacacgct gctggtgctg acactgcgc tctgggagcgt ggacgtgcc gtccagtggg</p> <p>tctttggctc tggcctctgc aaagtggcag gtgcccctctt caacatcaac ttctacgcag</p>	Homo sapiens

74	CXC Chemokine Receptor 3	752	NP_001495.1	<p> gagccctcct gctggcctgc atcagctttg accgctacct gaacatagtt catgccaccc agctctaccg ccggggggccc ccggcccgcc tgacctcac ctgcctggct gtctgggggc tctgcctgct ttctgcctc ccagacttca tcttctgtc ggcaccacc gacgagcgcc tcaacgccac ccactgcca tacaactcc cacagtggtg ccgacggct ctgcgggtgc tgacgtggtt gctggcttt ctgctgccc gctgtactat ggctactgc tatgccaca tccctggcgt gctgctggtt tccagggcc agcgcgctt ccggggccatg cggctggtgg tgggtgctgt ggtggcctt gccctctgct ggaccccta tcaactggtg gtgctggtgg acatcctcat ggacctgggc gctttggcc gaaactgtg ccgagaaagc aggttagacg tggccaaagtc ggtcacctca ggcctgggtt acatgcactg ctgctcaac ccgctgctct atgcctttgt aggggtcaag ttccgggagc ggatgtgat gctgctcttg cgcctgggct gcccacaaca gagaggctc cagaggcagc catcgtcttc ccgcccggat tcatcctggt ctgagacctc agaggctcc tactcgggt tctgagggc gaatccgggc tccccttgcg ccacagctct gactccccg cactccaggc tctccctcc cctgcccgc tctggctctc cccaatatcc tgcctcccg gactcactg cagccccag accaccagg tccccggaa gccacctcc cagctctgag gactgcacca ttgctgctcc ttagctgcca agccccatcc tgccgcccga ggtggtgccc tggagcccca ctgcccctct catttgaaa ctaaaacttc atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctccagctca gcagtactg tggccatggt cccaagacc tctatatattg ctctttatt tttatgtcta aaatcctgct taaaactttt caataaaca gatcgtcagg acaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa NVLEVSDHQV LNDAEVAALL ENFSSSYDYG ENESDSCSTS PPCQDFSLN EDRAFLPALY P SLLFLGLLG NGAVAAVLLS RRTALSTDT FLHLHVAADT LLVLTPLWA VDAAVQWVFG SGLCKVAGAL ENINFYAGAL LLACISFDY LNIVHATQLY RRGPPARVTL TCLAVWGLCL LFALPDFIFL SAHDERLINA THCQYNFQV GRTALRVQL VAGFLPLLV MAYCYAHILA VLLVSRGQRR LRAMLVVV VVAFALCWTP YHLVVLVDIL MDLGALARNC GRESRDVAK SVTSGLGYMH CCLNPLLYAF VGVKFRERMW MLLRLGCPN QRGLOQPSS SRRDSSWSET SEASYSGL </p>	Homo sapiens
75	CXC Chemokine Receptor 4	753	NM_003467	<p> gtttgttggc tgcggcagca ggtagcaaa gtagcccgag ggcctgagtg ctccagtagc A caccgcatct ggagaaccag cggttaccat ggaggggagc agtatataca cttcagataa ctacaccgag gaattgggtc caggggacta tgactccatg aaggaacctt gtttccgtga agaaaatgct aatttcaata aaatcttctt gccaccatc tactccatca tcttcttaac tggcattgtg ggcaatggat tggctatcct ggtcatgggt taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgtc agtggccgac ctcccttttg tcatcacgct tcccttctgg gcagttgatg ccgtggcaaa ctggtacttt gggaacttcc tatgcaaggc agtccatgtc atctacacag tcaacctcta cagcagtgtc ctcatcctgg cttcatcag tctggaccgc tacctggcca tgcgtccagc caccacacagt cagaggccaa ggaagctgtt ggctgaaaag gtggtctatg ttggcgtctg gatccctgcc ctccctgtga ctattcccga cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gcttctacc caatgacttg tgggtggttg tgttccagtt tgacacatat atgtgtggcc ttatcctgcc tggtagttgc atcctgtcct gctattgcat tatcatctcc aagctgtcac actccaaggg ccaccagaag cgaaggccc tcaagaccac agtcatcctc atcctggctt tcttcgctg </p>	Homo sapiens

[illegible]

78	755	Complement Component 3a Receptor 1	NP_004045.1	MASEFAETNS FLHLTLADLL CLVFEKPIWC SLDYPDFYGD SLPRGSARLT SSNSFYESEL FRMQRGFEAK IALASANSCE TV	TDLLSQPWNE CCLSLPFSLA QNHNRVGMAC PLENRSLENI SQNLYSNVEK PQGFQDYNNL SQSKTRFVAV NPFLYALLGK	PPVILSMVIL HLALQGOWPY SICGCIWVVA VQPPGEMNDR PADVSPKIP GQFTDDDDQVP VVAVFLVCW DFRKKARQSI	SLTFELGLPG GRFLCKLIPS FVMCIPVFVY LDPSSFQTNL SGPFIETHET TPLVAITITR TPYHIFGVLS QGILEAAFESE	NGLVLWVAGL IIVLNMFAV RELFTDNHN HPWTVPTVFQ SPLDNSDAFL LVVGFLLPSV LLTDPETPLG ELTRSTHCPS	KMQRTVNTIW P FLTLAISLDR RCGYKEGLSS PQTFQRPSAD STHLKLFPSA IMIACYSFIV KTLMSWDHVC NNVISERNST	Homo sapiens
79	758	Complement Component 5a Receptor 1	NM_001736	agggggagcc cactatgatg ctgcgtgttc ctgggcaatg atctggttcc ttcacgtcca ccctccctca gaccgctttc gcctggatcg ctgtaccggg agccacgaca tggcctctac agggccacgc atcttctggg ccacacctcc tgctgcatca aaatccctcc aagtcattca acagcctcat ttttcacttc cctgtctttc tgcaagggtga catctttcca atatggcaat aaaaaaatgt tttgggacaa aaagaaaatt aggtgggtgg	caggagacca acaaggatac cagacatcct ccctgggtgg tcaacttggc ttgtacagca tctgtctcaa tgctgggtgt cctgtgacct tggtccggga aacggcgagg tcacgctcac ggtccaccaa tgccctacca tgctgctgaa accccatcat ccagcctcct cgcgctccac gggccactgt acttttctgt ccagacttgt acacttctct tcccaggctt aggtgtgaac atttatttta aacagaagtc aggctgagag atcacctgag	gaacatgaac cctggacctc ggccttgggc ctgggtgacg ggtagccgac tcaccactgg catgtacgcc taaacccatc ggcttggggt ggagtacttt gcagaccgtg gattgtttac gacactcaag ggtgacgggg taagctggac ctacgtgggt ccggaacgtg agtggacact ggcccgatgt ggatgggtgt ccctctcttt ctagggagca ttgaaaaaca agggaaactca tggcaagtgtg tctaaagctc catggagtta gtcaagagtt gtcaagagtt	tccttcaatt aacacccctg atctttgcag gcattcgagg ttcctctcct ccctttggcg agcatcctgc tcttggccac tggtgccaga ttagccctgc ccaccaaagg gccatcgtcc gtggtggtgg acttctcatc gtggtggtgg ataatgatgt tccctgtgtg ggcggccagg tgactgaag atggcccaga cccttctcct acttagcta ccagcgggac tcttctcatt ccccacccc ccctccacc aacagaaacc gaatacacag agtagaaaag gaaaatagtc tgaatgtgag cccagaaact ccagaccagg ctgggcaggca	tgattatggg A ttctaaacac ggtagggag catcaatgc gcccattctg cagcatcctg tcttggccac acttccgagg tctctcttgc ctacatcaac ccgactgcgg tagggagagc agtgtaggcg ctccctcttg ctccatgttg cttctcatt ccccacacac ggatatcttc attctcgctt tcaaaagtct ttaattttaa tgggaggcta tggtgaaacc	Homo sapiens	

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p>ccgtctgtac taaaaataca aaaaattaac tgggcatggt agtgggtgccc tgtaatccca gctacttggg aggtgaggt gggagaattg ctcgaaacctt ggaggtggag gttgtggtga gccatgatcg caccactgca ctctagcctg ggtgaccgag ggaggctctg tctcaaaagc aaagcaaaaa caaaacaaa aacacctaag aacactgacg tttgtttgt acttgtttt taaattatgc tttctatttt gagatcatg caaactcaac acaattgtaa gtaattgatac agagggatct tgtgtacctt tcaccagcc tcccccaatg gcaacatctt gcaaaatac aatgtagtct cataaccagg atattgacat tgatacagtg aagatacagg acattctcat caccacagg atccccagga tggccacttc cctccacccc caccacccag cagtgtccct aacccctggc aaccaggaat ccactctcca tttctataat gttgtcatct caagaatgtt attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaaa gtatacatga ctttaatgag gaaaaataaa atgaatattg aaaaaaaaaa ctttagag</p> <p>MNSFNYTTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVVFLV GVLGNALVWV P VTAFEAARTI NAIWFLNLAV ADFLSCLALP ILFTSIVQHH HWPFGAACS ILPSLILLNM YASILLLATI SADRELLVEK PIWCQNFRA GLAWIACAVA WGLALLLTIP SFLYRVVREE YFPPKVLGV DYSHDKRRER AVAIVRLVLG FLWPLLTITI CYTFILLRTW SRRATRSTKT LKVVAVAVAS FFIFWLPYQV TGIMSFLEP SSPTFLLLNK LDSLCVSFAY INCCINPIIY VVAGQGFQGR LRKSLPSLLR NVLTEESVVR ESKSFTTRSTV DTMQAQTKQAV</p>	Homo sapiens
81	767	Calcitonin Receptor- like Receptor	NM_005795	<p>gcacgaggga acaactcttc tctctscagc agagagtgtc acctctgct ttaggacct A caagctctgc taactgaatc tcactctaatt tgcaggatca cattgcaaaag ctttcaactct ttcccacctt gcttggtggt aaatctcttc tgcggaaatc cagaagtaa agttccatcc tgagaatatt tcacaaagaa tttccttaag agctggactg ggtcttgacc cctggaattt agaaaattct taaagacaat gtcaaatatg atccaaagaa aaatgtgatt tgagtctgga gacaattgtg catatcgtct aataataaaa accatacta gcctatagaa acaaatattt gaataataaa aaccatact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaact actacaactt gacaagactg ctgcaaaact caatgggtca ccacaactg acaagggtgc tataaaacaa gattgctaca acttctagtt tatgttatag agcatatttc atttgggctt aatgatggag aaaaagtga cctgtattt tctggttctc ttgecttttt ttatgattct tgttacagca gaattagaag agagtccctga ggactcaatt cagtgggag ttactagaaa taaaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactgca acagaacctg ggatggatgg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agctctgccc tgattacttt caggactttg atccatcaga aaaagttaca agatctgtg accaagatgg aaactgggtt agacatccag caagcaacag aacatggaca aattataccc agtgaatgt taacacccac gagaaagtga agactgcaact aaattgttt tacctgacca taattggaca cggattgtct atgcatcac tgcttatctc gcttggcata tctttttatt tcaagagcct aagttgcca aaggattacct tacacaaaaa tctgttcttc tcatttgttt gtaactctgt tgtaacaatc attcacctca ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgtagttg aagtggtccc agttcatcca tctttacctg atgggctgta attacttttg gatgctctgt gaaggcattt acctacacac actcatgttg gtggccgtgt ttgcagagaa gcaacattta atgtggattt attttcttgg ctggggattt ccactgattc ctgcttggat acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataccca tctcctctac attatccatg</p>	Homo sapiens

82	767	Calcitonin Receptor-like Receptor	NP_005786.1	MEKKTLYFL VLLPFFMILV EGVYCNRTWD GWLCWNDVAA WTNYTQCNVN THEKVKTNALN FFSFVCNSV TIHLTVAN IVVAVFAEQ HLMWYFLGW ALLVNLFFLL NIVRVLTKL AEEVYDIIMH ILMHFQGLV YTVSTISDGP GYSHDCPSEH ggggactacg gagagctctg tcccgaggac caggggatgc gagctcagcc taatcaaaga cacctccgc accatcacca agacatcaaa ggtgacatgg ttcccttagg ggaagtccct	gagctcttga tctgtacatg ccatggcgac atgcacttcc gcaattctga tcagaagctc agtcatgact ctcttaaaac tgcttctcct aatgactttg agagtgtaac taaatactcc ggagaaaagc gaattcaaac csccecaaga aaactcttta gtcctttttg ttctttttct catcagttat gcaatctttac aacctcttcc cccttccatt aggattttct actccattat gcaaatatat ttttaataa tggtgtgatt	gttaaatatt tctgtacatg ccatggcgac atgcacttcc gcaattctga tcagaagctc agtcatgact ctcttaaaac tgcttctcct aatgactttg agagtgtaac taaatactcc ggagaaaagc gaattcaaac csccecaaga aaactcttta gtcctttttg ttctttttct catcagttat gcaatctttac aacctcttcc cccttccatt aggattttct actccattat gcaaatatat ttttaataa tggtgtgatt	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	TAELEESPED SIQLGVTRNK GTESMQLCPD YFQDFDPSEK LFYLTIIHGHS LSIALLSLS NQALVATNPV SCKVSOFIHL GFPLIPACIH AIARSLYND KVTHQAESNL YMKAVRATLI STIFCFNNGE VOAILRRNWN INGKSIHDIE NVLLKPENLY caggagccg agggccccc gaaggattg cccctgtgg ctgagtcgac ctgagtgcc ctgacgtggc tcaaatgaca catcccaatt aggtacttcc tccaagagaa gtagactgcg	gagcttctg cagtcatttt ttgcagatac ttcagtagca tccctttaac cccgagtagt	gagcttctg cagtcatttt ttgcagatac ttcagtagca tccctttaac cccgagtagt	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p>ccagcagac cagtgagaa ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatgtcct gaacccagc cagcagctgg ccattgcagt cctgtccctc agctgggca ccttcagggt cctggagaa ctcctggtgc tgtgcgtcat cctccactcc cgcagcctcc gctgcaaggcc tctctaccac ttcacggca gctgggggt ggcagacctc cgtgggagtg tcattttgt ctacagcttc attgacttcc acgtgttcca cgcctcctg ggcagcaacg tgtttctgtt caaaactgggt ggggtcacgg cctccttcac ttcctcctat aagagcctgt tccacacagc catcgacagg tacatatcca ttcacaggcc cctggcctat aagagcctgt tccacaggcc caaggccgtg gtggcgtttt gctgatgtg gacatagcc atgtgtatcg cctgctgccc tctcctgggc tggaaactgcg agaaactgca atctgtttgc tcagacattt tcccacacat tgatgaaacc tacctgatgt tctggatcgg ggtcacaccg gtactgcttc tgttcacgt gtatgcgtac atgtatatcc tctggaaggc tcacagccac gcgtcccgca tgattcagcg tggcacccag aagagcatca tcatccacac gctcaggat ggaaggtac aggtgacccg gccagaccac gccgcctgt acattaggtt agccagacc ctggtcctga tctggtggt gttgatcatc tctggtggcc cctcgttcg aatcatggtg tatgatgtct ttgggaagat gaacaaagctc attaagacgg tgtttgcatt ctgcagtatg ctctgcctgc tgaactccac cgtgaacccc atcatctatg cctgaggag taaggacctg cgacacgctt tccggagcat gttccctct tgtgaaggca ctgcgagcc tctggataac agcatggggg actcggactg cctgcacaaa cagcaaaa atgcagccag tgttcacagg gccgcagaaa gctgcataca gagcacggtc aagattgcca aggtaacctat gctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgatgctcc ctggcagcac aggaagaaa tttttttt taagctcaaa atctagaaga gctattgtc tcttggtta tttttttt actttaccat gctcaatgaa aagtgattg ccacatgtca cttattgtc tagtttccgt ttgggctaact ctccgggggt tcgtaggaaa ccttt</p>	Homo sapiens
85	Cannabinoid Receptor 2	NM_001841	<p>TKSILDLGLAD TTFRTITDDL LYVGSNDIQY EDIKGDMASK LGYFPQKEPL TSFRGSPFQE P KMTAGDNPQL VPADQVNITE FYNKLSSEK ENEENIQCGE NFMDIECFMV LNPSQQLAIA VLSLTGTFE VLENLLVLCV ILHSRSLRCR PSYHFIGSLA VADLGSVIF VYSFIDFHF HRKDSRNVEL FKLGGVTASF TASVGSLEFL IDRYISIRH PLAYKRIVTR PKAWAFCLM WTIAIVIAVL PLLGMNCEKL QSVCSDFPH IDETYLMFWI GVTSVLLLFV VYAYMYILWK AHSHAVRMIQ RGTQKSIH TSDEGKVQVT RPDQARMDIR LAKTLVLILV VLIICWGPLL AIMVYDVEGK MNKLIKTVFA FCSMLCLLNS TVNPIIYALR SKDLRHAFRS MFPSCEGTAQ PLDMSMGDSD CLHKHANNA SVHRAEESI KSTVKIAKVT MSVSTDTSAE AL</p> <p>caggtcctgg gagaggacag aaacaaactg gactcctcag cccccgcag ctcccagtcg A ccagccacc ccaacacac ccaagcctt ctagacaagc tcaagtgaat ctgaaggcc caccatgg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaacccta tgaaggatta catgatcctg agtgggtccc agaagacagc tgttgcctg ttgtgactc tctggggcct gctaaagtgc ctggagaacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatcctgt tcaattggcag ctggctggg gctgacttcc tggccagtggt ggtctttgca tcagactttg tgaatttcca tgttttccat ggtgtggatt ccaaggctgt cttcctgctg aagattggca gcgtgactat gaccttccca gcctctgtgg tagcctcct gctgaccgc attgaccgat acctctgctt gcgctatcca</p>	Homo sapiens

86	Cannabinoid Receptor 2	NP_001832.1	MEECWVTEIA NGSKDGLDSN SHQLRRKPSY LFIGSLAGAD VGSLLTAID RYLCLRPYPS ELFPLIPNDY LLSWLLFIAF VRLAKTLGLV LAVLLICWFP LRSGEIRSSA HCLAHWKKC agctgtgtga gacgggacag agctocaaacc atgggaggcc agctgaacc caggactcca caatgccacc gctgtcgtct cccgacggag acttgtgacg aaaattctcg gactgctgga tgagcctgtt tctggggcaa ggacgagtgc agtccgggc gggttcatac agtgcgcgt ccaaaaggac actgtctgtg ccacagccag acgctttccc gacaagtca gccgaggtca agctcctgga gacgtagagg gctctcaaac cttgaagata	833	872	87	ccttctacta aagctctgct caccctgga agggcactgg tgaccttggg catcatgtgg gtctctcag cactagtctc ctacctgcc ctcatgggat tgaccttggg tcccaggccc tgctctgagc ttttccact gatcccaat gactacctgc tgaccttggg cctgttctc gccttctctt tttcggat catctacac tatgggcatg ttctctggaa ggcccatcag catgtggcca gctgtcttgg ccaccaggac aggcaggtgc caggaatggc ccgaatgag ctggatgtga gtttgccaa gacctaggg ctagtgttgg ctgtgctcct catctgttgg tcccagtgc tggccctcat gggccacagc ctggccacta cgctcagtga ccaggtcaag aaggcctttg ctttctgctc catgctgtgc ctcatcaact ccattgtcaa cctgtctc tatgtctac ggaagtggaga gatccgtcc tctgcccac actgcttggc tcaactggaag aagtgtgtga gggcccttgg gtcagaggca aaagaagaag cccgagatc ctcagtcacc gagacagagg ctgatggaa aatcactccg tggccagatt ccagagatct agacctctct gattgctgat gaggcctctt cccaatttaa acaactcaag tcagaaatca gtctactccc tggaaagag agagggtct tggcactctc ttcttacta aaccagtccc agacacctag acacggacc ctttctgctg atgagtgttg ggaactgact ctggaagaca gcctggcctt gcccacctgc acacagtctg ttgatatgtt agggccacga ggaatagcca ggtaggcgag acacaaaaag gcctgggaca ggtcagtagc aagtcaggac aggcctcatg cctgcactct ccagagacca ccaggagcca aagcagacct ccaggccacg caatgaggga ctggggagaa atctgagaag aatgggttgt tctcttggga agtcagggtg tcaatgaggga tggacatcca ggtctctctc ctgcctaatt gtcaaggcct ccttggctct ggagctatga aaggccccac tttcaagtca ccttggccac tgaggaccga ggactatgct atgatgagga ttaagggtgt gacttgcctc tttcagagat aaatgacaag ccttca TLLGLLSALE NVALYLILS P Homo sapiens DSKAVFLIKI GSVTMTFTAS SALVSYLPLM GWTCCPRPCS ASLSGHQDRQ VPGMARMLD FAFCSMLCLI NSMNPVIYA EADGKITPWP DSRDLDSLDC cctctgcccgc tctgcccgc A Homo sapiens gtctggctga ctctgctgt cctcagaact cctcgtgtgt tttctgaga tcatcaccac ccgtcgaag tgctatgcgg tgctgtgtga gcccgggata gagaacacct gtcaagatgt accgtctgtc tcaacacct agacacggaa tcccgaataa tggacccccg cccctggagt gacctgggca gagactccaa ttggtggatg aactgatgga cacctcatag ccacccagct agcctgcccag aagccccctt
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88	922	Leukocyte Antigen CD97	NP_001775.1	<p> caccatacatt tccctctcga acacagagct gaccctgatg atccaggagc gggggagacaa gaacgtcact atgggtcaga gcagcgcaag catgaagctg aattgggctg tggcagctgg agccaggat ccaggccccg ccgtggcggg catcctctcc atccagaaca tgacgacatt gctggccaat gcctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaagcagc atccgtggtg tccaaactag accctctctt gccgtcaact ccactttct gagccacaac aacaccaagg aactcaactc cccactctt ttcgcttct ccaaccttga gtcctccgat ggggagcgcg gaagagacc tccctgcaa gactgtatgc ctggggccacg gcaggagctg ctctgtgctt tctggaagag tgacagcgac agggagggg actggggcac cgaggtctgc caggtgctgg gcagcaagaa cggcagcacc acctgccaat gcagccact gagcagcttt acgatactta tggctcatta tgacgtggag gactggaaagc tgacctgat caccagggtg ggaactggcg tgtcactctt ctgctgctg ctgtgcatcc tcaatttct gctggtgctg cccatccagg gctcgcgcac caccatacac ctgcacctct gcactgctt cttctgtggc tccaccatct tctggtggcg catcgagaac gaaggcgcc aggtggggct gcgtgcccgc ctggtggccg gctgctgca ctactgttct ctggcgccct tctgctggat gagcctcgaa ggctggagc tctactttct tgtgtgctg gtgttccaaag gccagggctt gagtacgcgc tggctctgctc tgatcggcta tggcgtgccc ctgtcatcgc tggcgctc ggctgccatc tacagcaagg gctacggcg cccagatac tgcgtgttgg actttgagca gggttctctc tggagcttct tgggacctgt gaccttcac attttgtgca atgctgtcat tttctgact accgtctgga agctcactca gaagtcttct gaaatcaatc cagacatgaa gaaattaaag aaggcgaagg cgctgacctc cagggccatc gcgcagctct tctgttggg ctgcacctgg gtctttggcc tgttcatctt cgacgatcgg agcttgggtgc tgacctatgt gtttaccatc ctcaactgctc tgcagggcgc ctctctctac ctgtgcaact gcctgctcaa caagaagggt cggaagaat accggaagt ggcctgccta gtgtgtggg ggagcaagta ctcagaattc acctccacca cgtctggcac tggccacaat cagaccggg cctcagggc atcagagtcc ggcataatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagcttgg tacacgaaga ccattccatc tcccttctgc caccactcta ctccctccac cctccctccc tgatcccggtg tgccaccagg agggagtggc agctatagtc tggcaccaaa gtccaggaca cccagtgggg tggagtgcga gccactggtc ctgctgctgg ctgcctctct gtccacctt gtgaccagg gtggggacag gggctggccc agggctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcggga cagactaagg gcgcttctcc cactctggac tttctctctc atgtctttgc tgcagaactg aagagactag gcgctggggc tcagcttccc tcttaagcta agactgatgt cagagggccc atggcgaggc cccttggggc cactgcctga ggctcaggt acagaggcct gccctgctg gccgggacag aggttctcac tgttgtgaag gtgttagacg tgtgtaatg tgtttttatc tgttaaaatt tttcagtgtt gacacttaaa attaaacaca tgcatacaga aaaaaaaaaa a </p>	Homo sapiens
				<p> FSEIITPTE P ACRCNPGFSS PQNSSCVNAT QDSRGCARWC PQNSGKFS PSKVSCKGFS WVLTLPAGET MGGRVFLAFC NP_001775.1 Leukocyte Antigen CD97 </p>	

89	941	EMR1 Hormone NM_001974 Receptor	Homo sapiens
<p> NTKELNSPIL FAFSHLESSD GEAGRDPPAK DMPGPRQEL LCAFWKSDSD RGGHWATEVC QVLGSKNGST TCQCSHLSSF TILMAHYDVE DWKLTILTRV GLALSIFCLL ICILTFLLVR PIQGSRTTIH LHLICILFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LAAFVWMSLE GLELYFLVVR VFQOGLSTR WLCLIGYGVV LLIVGVSAAI YSKYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINPDMKKLK KARALTITAI AQLFLGCTW VFGLFIFDDR SLVLTIVFTI LNCLOQAFLY LHCLLNKKV REEYRWACL VAGGSKYSEF TSTTSGTGHN QTRALRASES GI ctaaagtttt ttctcttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A ttctctgggg atgttgtgtt atgcacagct gggaaggcca cataagacc acacggaaac caaacacaaa gggtataaac tgtagagaca gtacctgtgt cccagcttat gccacctgca ccaatacggg ggacagttac tattgcactt gcaaacaaagg ctctctgtcc agcaatgggc aaaaacactt caagatcca ggagtgcgat gcaaaagatat tgatgaatgt tctcaaaagcc ccagccctg tggctctaac tcactctgca aaacctgtc agggagggtac aagtgcagct gtttagatgg ttctcttctt cccactggaa atgactgggt cccaggaag cccggcaatt ttctctgtac tgatacaat gagtgcctca ccagcagggt ctgacctgag cattctgact gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcatc tctagaaact ccacctgtga agacgtgaat gaatgtgcag atccaagagc ttgccagag catgcaactt gtaataacac tgttggaac tactcttgt tctgcaacc aggatgtgaa tccagcagt gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa tgtgccccat caattcaaca tgcaccaaca ctctctggag ctacttttgc acctgccacc ctggctttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaatgtagag atattgatga gtccgcgcaa gatccatcaa cctgtgttcc taattctatc tgcaccaatg cctgggctc ctacagctgt ggctgcattg taggtcttca tcccaatcca gaaggctccc agaaagatgg caacttcagc tgcctcagg ggctcagg tctctctcaa atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccaa agggaaaccg agtgaacct gcatagtct ccttttgtc acaataaat aacatcttca gcgttctgga caaagtgtgt gaaaaataaa cgaccgtagt ttctctgaag aatacaactg agagctttgt cctgtgtctt aaacaaatat ccatgtggac taaattcacc aaggaagaga cgtcctccct ggcacacagc ttcttgga gtgtggaaaag catgacactg gcatctttt ggaaaccctc agcaaatgtc actccggctg ttccggcgga atacttagac attgagagca aagtatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttggtg gccaaaggggg ataagatgaa gatcgggtgt tccacaattg aggaatctga atccacagag accactgtgt tggcttttgt ctcttttgtt ggcattggaat cggttttaaa tgagcgcttc ttccaagacc accaggctcc cttagaccac tctgagatca agctgaagat gaattctcga gtccgtgggg gcataatgac tggagagaag aaagacggct tctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagagg ccatctgtgt ttcttgagc actgatgtga aggttggaag atggacatcc tttagctgtg tgatccctgga agcttctgag acatatacca tctgcagctg taatcagatg gcaaatcttg ccgttatcat ggcgtctggg gagctcacga tggacttttc ctgtacatc attagccatg taggcattat catctccttg gtgtgcctcg tcttgccatt cgccacctt ctgtgtgtc gctccatccg aaatcacaac acctacctcc ctgcgtgtgt ctctcttgg cgaagactct ctctctcgcc ggtatacaca agacacgggc caagcgggc tgcgccatca </p>			

90	941	EMR1 Hormone NP_001965.1	EMR1 Hormone Receptor	<p> tgcggggtt cctgcactac cttttccttg cctgtcttctt ctggtgctg gtgagggtg tgatactgtt cttgatgttc agaaacctga aggtggtgaa ttacttcagc tctcgcaaca tcaagatgct gcacatctgt gcctttggtt atgggtctgc gatgtggtg gtggtgatct ctgccagtgt gcagccacag gctatggaa ttgataatcg ctgtggctg aatacagaga caggttctat ctggagtctt ttggggccag ttgacacagt tatgtgac aactcccttc tctgacctg gacctgttg atcttgagg agaggcttt cagtgttaat gccgaagtct caacgctaaa agacaccagg ttactgacct tcaaggcctt tgcacgctc ttatccctg gctgctcctg ggtgctggc attttcaga ttggacctg ggcaggtgc atggcttacc tgttaccat catcaacagc ctgcagggg ccttcattt cctcaccac tgtctgctca acggccaggt acgagaagaa tacaagaggt ggatcactgg gaagacgaag ccagctccc agtcccgac ctcaaggatc ttgctgtcct ccatgccatc cgttccaaag acgggttaaa gccttcttg ctttcaata tgctatggag ccacagttga ggacagtagt ttctgcagg agctaccct gaaatctctt ctgacttaa catggaatg aggatccac cagccccaga acctctggg gaagaatgtt gggggccgtc ttctgtggtt tgtatgact gatgagaaat cagactttc tgctccaaac gacctttta tctctgtgct ctgcaacttc ttcaattcca gagttctga gaacagacc aaattcaatg gcatgaccaa gaacacctgg ctaccattt gtttctctt gccctgttg gtgcatggtt ctaagcgtgc cctccagcg cctatcatac gctgacaca gagaaacctc caataaatga ttgtcgcct gtctgactga ttaccctaa aaaaaaaaa aaaaaaaaaa aaaaaaaa MRGFNLLFW GCCVMHSWEG HIRPTRKPT KGNNCRDSTL CPAYATCNT VDSYYCTCK P GFLSSNGQNH FKDPVGRCKD IDECSQSPQ CGNSSCKNL SGRYKCSCLD GFSSPTGNDW VPGKPFNFSC TDINECLTSR VCPESHDCVN SMGSYSCSCQ VGFI SRNSTC EDWNECADPR ACPEHATCNN TVGNYSFCFN PGFESSGHL SCQGLKASCE DIDECTEMCP INSTCTNTPG SYFCTCHPGF APSSGQLNFT DQGECDRID ECRQDPSTCG PMSICTNALG SYSCGCIVGF HPNPEGSKD GNFSCQRLV KCKEDVIPDN KQIQCEGT AVKPAYVFC AQINNIFSVL DKVCENKTV VSLKNTTESF VPVLKQISMW TKFTKEETSS LATVFLESVE SMTLASFWKP SANVTPAVRA EYLDIESKVI NKECSEENV LDIKAGDKM KIGCSTIEES ESTETGVAF VSFVGMESVL NERFFQDHQA PLTTSEIKLK MNSRVVGGIM TGEKKGFS PIIYTLENVQ PKQKFERPIC VSWSTDVKG RWTSGCVIL EASETYTICS CNQMANLAVI MASGELTMDF SLYIISHVGI IISLVCLVLA IATFLLCRSI RNHTYHLHL LCVCLLLAKT LFLAGIHKT NKTGCAIAG FLHYLFLAC FWMLEAVIL FLMVRNLKV NYFSSRNIM LHICAFGYGL PMLVVVISAS VQPQGYGMHN RCWLNTETGF IWSFLGPVCT VIVINSLLT WTLWILRQL SSVNAEVSTL KDRLLTFKA FAQLFILGCS WVLGFIQIGP VAGVMAYLFT IINSLQGAFI FLIHLNGQ VREYKRWIT GKTKPSSQSQ TSRILLSMP SASKTG ggaacacgac acctagaagt agtagtgaga ttgcctgaag ttcccttctg aggaagaccc A acccctccg ctggagagcc ggggctggcg gtgcctgagg acccttcgg cctggacagc ccacgcggc ttggggggc tgcctctgcc ctcatggggc ggccatcggt tcccgaagcg gcgagtgaat attcaaatgg ccagtgggg gcgcactcgg aagtggccg cccgcatgag gcagttcagc ggcctcgaga gtccggggg gcaggtttat tctccgctg cagcagactg tgaatccgc aacctagc agtagagcg gccctggtg ggaagagcc accaacatct ggacggcagg taccagaga gtgagcagct ccacgcggga ctgtgcacgg tggccgacac </p>	Homo sapiens
91	965	NM_001505	G Protein-Coupled Receptor GPR30	<p> ggaacacgac acctagaagt agtagtgaga ttgcctgaag ttcccttctg aggaagaccc A acccctccg ctggagagcc ggggctggcg gtgcctgagg acccttcgg cctggacagc ccacgcggc ttggggggc tgcctctgcc ctcatggggc ggccatcggt tcccgaagcg gcgagtgaat attcaaatgg ccagtgggg gcgcactcgg aagtggccg cccgcatgag gcagttcagc ggcctcgaga gtccggggg gcaggtttat tctccgctg cagcagactg tgaatccgc aacctagc agtagagcg gccctggtg ggaagagcc accaacatct ggacggcagg taccagaga gtgagcagct ccacgcggga ctgtgcacgg tggccgacac </p>	Homo sapiens

ccgcaggagac gccgcgcccga cgcgcacgcg gaggggccctc gctccacgcg atgcaccatg
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 tcatgtgcgg atcctt

93	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	LSCLYTIFLF PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSIIEVFNLH sapiens
					ERYDYDIAVLC TFMSLEFLOVN MYSSVFFELTW MSFDRIYALA RAMRCSLFRT KKHARLSLSCGL sapiens
94	978	Cholecystoki nin A Receptor	NP_000721.1	MDVVDLSLWN GSNITPPCEL GLENETLFCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P sapiens	IWMASVSATL VPFTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPFAII GLCYSLIVRV sapiens
					LVRAHRHRGL RPRRQKALRM ILAVLVVEFV CWLPENVFIS VHLQRTQPG AAPCKQSFRI sapiens
95	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	AHPLTGHIVN LAAFNSCLN PLIYSFLGET FRDKRLRYIE QKTNLPALNR FCHAALKAVI sapiens
					PDSTEQSDVR FSSAV sapiens
96	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	ggaatggctg aaaaagccca cacctggaaa tcactccctc cctgtcctc cagggcaggt A Homo
					tgcattctcg agacgcttcg gtcattagag gaatgagccg ggagtgagca attcaccagc sapiens
97	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	tctccagcac ttgggtgaaa gcagcaggca aggatggatg tgggtgacag ccttcttggt sapiens
					aatggaagca acatactcc tcctgtgaa ctgggctcg aaaaagagac gcttttctgc sapiens
98	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	ttggatcagc cccgtccttc caaagagtgg cagccagcgg tgcagattct cttgtactcc sapiens
					ttgatattcc tgctcagcgt gctgggaaac acgctggtca tcaccgtgct gattcgggaa sapiens
99	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aagcggatgc ggacgggtcac caacatcttc ctctctccc tggctgtcag cgacctcatg sapiens
					ctctgtctct tctgcattgccc gttcaacctc atccccaatc tgcacaagga tttcatcttc sapiens
100	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	gggagcgccg tttgcaagac caccacctac ttcattgggca cctctgtgag tgtatctacc sapiens
					tttaattctgg tagccatata tctagagaga tatggtgcga tttgcaaac cttacagttc sapiens
101	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	cgggtctggc agacaaaatc ccatgctttg aaggtgattg ctgtactctg gtgcctttcc sapiens
					tttaccatca tgactccgta cccatttat agcaacttgg tgccttttac caaaaataac sapiens
102	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aaccagaccg cgaatatgtg ccgctttcta ctgcaaaatg atgttatgca gcagtcctgg sapiens
					cacacattcc tgttactcat cctctttctt attcctggaa ttgtgatgat ggtggcattat sapiens
103	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	ggattaatct ctttggaaact ctaccaggga ataaaatttg aggcctagcca gaagaagtct sapiens
					gctaagaaga ggaacactag caccaccagc agcggcaaat atgaggacag cgatgggtgt sapiens
104	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	tacctgcaaa agaccaggcc ccgaggaaag ctggagctcc ggcagctgtc caccggcagc sapiens
					agcagcaggg ccaaccgcat ccgagtaaac agctccgcag ccaacctgat ggccaagaaa sapiens
105	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aggtgatccc gcatgctcat cgtcatcgtg gtcctcttct tcctgtgctg gatgcccatc sapiens
					ttcagcgcca acgcttgggc ggctacgac accgctcccg cagagcgccg cctctcagga sapiens
106	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	accccathtt ccttcactct cctcctgtcc tacacctcct cctgggtcaa ccccatcatc sapiens
					tactgcttca tgaacaaaacg ctcccgctc ggcttcatgg ccaccttccc ctgctgcccc sapiens
107	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aatcctggtc cccagggggc gagggagag gtgggggaggg aggaggaagg cgggaccaca sapiens
					ggagcctctc tgtccaggtt ctcgtaacgc catatgagt cctcgtgtcc acccagtgga sapiens
108	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	gatgtccctt gaccctccac cgcagaagga aggcagggag gaggcagaga agaaagaacg sapiens
					gaagaagaga tcaggaaag aggagcaga cagagctga tggagaagga aggtcccatc sapiens
109	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	tccagtggga actcttcaag gtctcttttc atccttcata tgattccaga gcactgctcc sapiens
					agtggggcca tgattgggtt ctaggcagtt caaagcagga tatgttaagt aacactcaac sapiens
110	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	catcag sapiens
					MDVVDLSLWN GSNITPPCEL GLENETLFCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P sapiens
111	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NP_000721.1	LVITVLIRNK RMRTVTNIFL LSLAVSDLML CLFCMPFNLI PNLLKDFIFG SAVCKTTTYF sapiens
					MGTSVSVSTF NLVAISLERY GAICKPLQSR VMQTKSHALK VIAATWCLSF TIMTPYPIYS sapiens
112	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NP_000721.1	NLVPTKNNN QTANMCRFL PNDVMQSWH TFLLLILFLI PGIVMMVAYG LISLELYQGI sapiens
					KFEASQKKA KERKPSITSS GKYESDGCY LQKTRPPRKL ELRQLSTGSS SRANRIRSNS sapiens
113	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NP_000721.1	SAANLMAKKR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASAERLSGT PISFILLISY sapiens

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	TSSCVNPIIY CFMKNRRLG FMATFPCCPN PGPPGARGEV GEEEGGTTG A\$LSRFSYSH MSASVPPQ	atggacgagg cactgctcca cagcctgctg gaggccaact gcagcctggc gctgggtgaa A gagctgctct tggagggctg ggggccaacc ctggaccctg aggtgcccta ctctactgc aacagacct tggaccagat cggaaactgc tggccccgca gcgtgcccg agccctcgtg gagaggcgt cccccagta ctccaacggc tcaaatgata acagaccctg gaatgacctat cgagaatgct tggagaatgg gacgtgggac tcaaatgata actactcaca gtgtgagccc attttgatg acaagcagag gaagtatgac ctgcactacc gcctgcccct tgcgtcacaac tacctgggac actgctgctc tgtggcagcc ctgggtggccg cctcctgct tttcctggcc ctgaggagca ttcgctgctc gcggaatgtg attcaactga accatcatcac cacttttacc ctgcgaaatg tcatgtggtt cctgctgag ctcgttgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctgtgtgac caacttcttc tggatgtttg tggaaaggctg ctacctgac acggccattg tcatgacctc ctccactgag cgctgcgca agtgcctctt cctcttcac ggaatgga tccccctccc catcatcgct gcctgggcca tcggcaagct ctactatgag aatgaacagt gctgggtttgg caaggagcct ggcgacctgg tggactacat ctaccaaggc cccatcatc tctgtctct gatcaattc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccacctgg tgcctctgccc cctcctgggc atacactaca tgccttctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actcctctc gacgtcgttc caggttttct tctgtctgt ctctactgc ttcttcaatg gagaggtgct ctacgcccgt aggaagaggt ggcacgctg gcaggacct cactcccttc gactcccat ggcggggcc atgtccacc ctacatcac caccagatc agcttcaca gcatcaagca gacggcgct gtgtgaccc tgcgtgccc acctgcacag ctccccgtc ctccctcacc ttcttctct ggttctctg tgcgtggcag gctctcgtg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgggc agccaaaggg gactgcaagg gacagggatg agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcatttg cccatccag cctctctgac caggccctta ctgggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcagacac agggctcccc tgcctactc atggagccag cagccaggca atgtgtggtg cctgactgg ccttggaact ccactcag tgggtccctg cagttgggtg gtttaacgccc aagcaaaagg tcaagtttggc tgcctatcc cagggtgtc acctagagag gctcactgt acccaccct gttcctgtgt ccccccca gccatcctcc ccgcttggg ggtccatga aggatgcagg gtccaggcc tggcttctc tcttgggaga ccccctctc gctagtcca cagattagg aatcaaggaa gacgccatca gggaagccac atccttagtc aaccagtgc atcgtgcggg gcaaaatgag gacagaggc atggagaggg gaggcgtggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccctg cctccagtc tccccctcag aaacatctct gctctctgtg aaataaacca tgctctgtg	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	MDAALLHSL EANCSLALAE ELLLDGWGPP LDPEGPYSYC NTTLDOIGTC WPSAAGALV P ERPCEYFENG VKYNTTRNAY RECLENGTWA SKINYSQCEP ILDDKQRYD LHYRIALVNV YLGHCVSVA LVA AFLFLA LRSIRCLRNV IHNWLTITFI LRNVWFLLIQ LVDHEVHESN		Homo sapiens

97 1240 Dopamine NM_000794
Receptor D1

99 1241 Dopamine Receptor D5 NM_000798

100	1241	Dopamine Receptor D5	NP_000789.1	<p> aaaaaaaaa MLPPGNSGTA YPGQFALYQQ LAQNAVGGG AGAPPLGPSQ VVTACLTLTL IIWTLGNVL P VCAAIVRSRH LRANMNVFI VSLAVSDLEF ALLVMPWKAV AEVAGYWPFG AFCDVWVAFD sapiens IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTSLIL ISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEP DVNAENCDSS LNRTYAISSS LISFYIPVAI MIVTYTRIYR IAQVQIRRIIS SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKILSV IMGVEVCCWL PFFILNCMVP FCSGHPEGPP AGFPCVSETT FDFVFWFGWA NSSLNPVIYA FNADFQKVEA QLLGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAAY IHMPNNAVTP GNREVDNDEE EGPFDRMFQI YQTS PDGDPV AESWELDCE GEISLDKITP FTPNGFH agagcctggc caccagtggt ctcaccggc ctgatggatc cactgaatct gtctgggtat A gatgatgatc tggagaggca gaactggagc cggcccttca acggttcaga cgggaaggcg sapiens gacagacccc actacaacta ctatgccaca ctgctcacc tgcctcatcg tgctcatcgctc ttcgggcaacg tgcgtggtgt cagtgctgtg tcccgcgaga aggcgctgca gaccaccacc aactacctga tcgtcagcct cgcagtgccc gacctcctcg tcgccacct ggctatgccc tgggttgctt acctggaggt ggtaggtgag tggaaattca gcagattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaaag cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtgca tcattgocaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcccttca ttgtcacct gctggtctac atcaagatct acattgtcct ccgacagcgc cgcagagcag tcaaacacaa acgcagcagc cgagctttca gggccacact gagggctcca ctaaagggca actgtactca ccccgaggac atgaactctt gcaccgttat catgaagtct aatgggagtt tcccagtgaa caggcggaga gtggaggctg cccggcgagc ccaggagctg gagatggaga tgctctccag caccagccca cccagagaga cccggtacag ccccatccca cccagccacc accagctgac tctccccgac ccgtccacc atggtctcca cagcactccc gacagccccg ccaaacaga gaagaatggg catgocaaa accaccccaa gattgccaag atctttgaga tccagacct gccaatggc aaaacccgga cctccctcaa gaccatgagc ctaggaagc tctcccgca gaaggagaag aaagccactc agatgctcgc cattgttctc ggcgtgttca tcatctgtg gctgcccttc ttcatcacac acatcctgaa catacactgt gactgcaaca tcccgctgt cctgtacagc </p>	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	<p> aaaaaaaaa agagcctggc caccagtggt ctcaccggc ctgatggatc cactgaatct gtctgggtat A gatgatgatc tggagaggca gaactggagc cggcccttca acggttcaga cgggaaggcg sapiens gacagacccc actacaacta ctatgccaca ctgctcacc tgcctcatcg tgctcatcgctc ttcgggcaacg tgcgtggtgt cagtgctgtg tcccgcgaga aggcgctgca gaccaccacc aactacctga tcgtcagcct cgcagtgccc gacctcctcg tcgccacct ggctatgccc tgggttgctt acctggaggt ggtaggtgag tggaaattca gcagattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaaag cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtgca tcattgocaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcccttca ttgtcacct gctggtctac atcaagatct acattgtcct ccgacagcgc cgcagagcag tcaaacacaa acgcagcagc cgagctttca gggccacact gagggctcca ctaaagggca actgtactca ccccgaggac atgaactctt gcaccgttat catgaagtct aatgggagtt tcccagtgaa caggcggaga gtggaggctg cccggcgagc ccaggagctg gagatggaga tgctctccag caccagccca cccagagaga cccggtacag ccccatccca cccagccacc accagctgac tctccccgac ccgtccacc atggtctcca cagcactccc gacagccccg ccaaacaga gaagaatggg catgocaaa accaccccaa gattgccaag atctttgaga tccagacct gccaatggc aaaacccgga cctccctcaa gaccatgagc ctaggaagc tctcccgca gaaggagaag aaagccactc agatgctcgc cattgttctc ggcgtgttca tcatctgtg gctgcccttc ttcatcacac acatcctgaa catacactgt gactgcaaca tcccgctgt cctgtacagc </p>	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	MDPLNLSWYD REKALQTTN SILNLCAISI ECIIANPAFV KGNCTHPEDM SHHQLTLPDP RKLSQQKEKK VNPIIYTFN	DDLERQNSR YLIIVSLAVAD DRYTAVAMPM VYSSIVSFYV KLCTVIMKSN SHGLHSTPDP ATQMLAIVLG IEFRKAFLKI	PENGSDGKAD LLVATLMPW LYNTRYSSKR PFIVTLLVYI GSFPVNRVRV SPAKPEKNHG VFIIICWLPPF LHC	RPHYNYAYATL VVYLEVVGEM RVTVMISIVM KIYIVLRRRR EAARRAQELE AKDHPKIAKI ITHILNIHCD CNIPPLYSA	LTLIAVIVF KFSRIHCDIF VLSFTISCP KRVNTRKSSR MEMLSSTSP FEIQTMPNGK FTWLGYNVA	GNVLVCMAS P VTLDVMMCTA LFGLNADQN AFRAHLRAPL ERTRYSPFP TRTSLKTMSR	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	taaagaaaac gctggaaaag gttcatttca gctgtcagta agaaaaattt gtcagctgag aggcccgccc tcggcaatgg actacttagt gggtgggtata ttttgtgcac gcatagacag	ggatacatctc cagcactcaa tagtttctga aatggctgca aggaagcccc tagccacctg acatgcctac cctggtgtgc agtgacctg cctggaggtg cctggatgtc gtacactgca	gaaagcagct gtaatttcac gtcctgagaa ggagccgaag ttggcatcac aactacacct tatgcccctc atggctgtgc gctgtggcag acaggtggag atgatgtgta gtggtcatgc	atgaacacatg cttagaggca aggcaagtct tggtaaacctc gcacctccct gtgggcaga cctactgcgc tgaaggagcg acttgcctgt gctgtggcag tctgggaattt cagccagcat ccgttacta	cactaaggctc aaaaagggtg tgctttgctt ctcggctctc ctgggctatg gaactccaca gctcactcgc ggccctgcag ggccaccttg ggtgatgccct cagccgcatt ccttaactct ccagcatggc	taatagggaa A attctcttct gggtatgtct agaaatcaga gcatctctga ggtgccagcc gccatcgtct actaccacca gtgatgccct tgctgtgtatg tgtgccatca acgggacaga	Homo sapiens

[illegible]

Homo sapiens

NP_000787.1

Dopamine
Receptor D3

104 1243

NM 000797

Dopamine
Receptor D4

105

106	1244	Dopamine Receptor D4	NP_000788.1	<p>cctgacctgt cctgcccccc gcggtggtc agcgccgtca cctggctggg ctacgtcaac agcgccctca acccgctcat ctacactgtc ttcaacgcg agttccgcaa cgtcttcgcg aaggccctgc gtgctgtctg ctgagccggg caccgccgg cgcgcccg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgtttttgta cgtaattaa acaaatcct tccc</p> <p>MGNRSTADAD GLLAGRPAA GASAGASAGL AQGAAALVG GVLLIGAVLA GNSLVCVSPA P TERALQTPN SFIVSLAAAD LLLALLVLPL FVSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVP LRYNRQGSR RQLLLIGATW LLSAAVAAPV LCGLNDVRGR DPAVCRLEDR DYVYSSVCS FFLPCPLMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPSPTPPA PRLPQDFCGP DCAPPAPGLP RGPCGPDCAP AAPGLPPDPC GPDCAAPPAG LPQDPCGPDG APPAPGLPRG PCGPDCAPPA PGLPQDPCGP DCAPPAPGLP PDCGNSCAP PDAVRAAALP PQTTPQTPRR RRAKITGRER KAMRVLPLVV GAFLLCWTPF FVHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFRNVER KALRACC</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>ccgaggagcc tgcgtgctc ctggctcaca gcgctccggg cgaggagagc gggcgagccg A gggggctggg ccggtgctgg cgcgaggga ggcgagagc ggcgagagc agcgggcgcg cggggcgcg gcacggcg ggtcgggg ggcctctgcc ttgcgctcc cctcgctcg gatcccccg cccaggcagc cgggtggag ggcgcgcg ggcgagcga gccatggaa cggccccct cgcggcgcc gactgcag cccgctctt cgcaacgcc tcggagcct acctagcgc ctccccagc gctggcgcca atgctcgg ggcgagga ccggggagcg cctgctcct cgccctgga atcgccatca cgcgctcta ctcggcgctg tgcgctgg ggctgctgg caactgctt gctatgttc gctatgttc gtaactaa atgaagacg ccaccaaat ctacatctt aacctggcct tagcgcct gctggcacc agcagctgc ctttccag tgccaaagtac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgcttc catcgactac tacaatatgt tcaccagcat cttcacgctc acctatga gtgtgacc ctacatgct gtctgccacc ctgtcaaggc cctggactc cgcagcctg ccaaggccaa gctgatcaac atctgtatct ggttcctggc ctacaggctt ggcgtgcca tcattgtcat ggtgtgacc cgtccccgg aggtgagc ggtgtgcat ctcagttcc ccagccccag ctggtactg gacacggtga ccaagatctg cgtgttctc ttgccttcg tgggtgccat cctcactc accgtgtgct atggcctcat gctgtgctg ctgagcagtg tgccctgct gtcgggctc aggagaagg accgagcct ggcgagcat acgagcagtg tgctggtggt tgtggcgcc ttctgtgtgt gttggcgcc catccacat ttctcatcg tctggagct ggtggacat gaccggcg acccgctggt ggtggctgg ctgacactgt gcatcgct gggctacgc aatagagcc tcaacccct gctcactc ttctcgacg agaactcaa gcgctgctt cgcagctct gcgcaagcc ctgcgccgc ccagaccca gcagcttcag cggccccgc gaagccacg ccgagagc gtaacgcc tgacacctg ccgatggtcc cggcggtggc cgtgcccct gaccagcca tccggcccc agacgccc ccctagtgt acccgaggc cacatgagtc ccagtggag gcgagacca tgatgtggag tggggccagt agatagtg gaggctttt ggagccag atggggcctc tgtttcggag acgggacgg gccgtagt gggcatggg tggcctctt gttggggcg aggcagagga cagatcaatg gcgagtgcc tctggtctg gtgccccct ccacggctc aggtggggcg ggaaagccag tgactccagg agaggagcg gactgtggc tctacaactg agtccttaa</p>	Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	gagggcatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttggga gccggacttt cggagttggg gggccggggg ccc MEPAPSAGAE LQPPLFANAS DAYPSAFPSA GANASGPPGP GSASSLALAI AITALYSAVC P AVGLLGNVLV MFGIVRYTKM KTATNIYFN LALADALATS TLPFQSAKYL METWPFCELL CKAVLSIDYY NNETSIFTLT MMSVDRIYAV CPVKALDFR TPAKAKLINI CIWVLASGVG VPIMMAVTR PRDGAIVCML QFPSPSWYWD TTKICVFLF AFVVPILIT VCYGLMLRL RSVRLLSGSK EKDRSLRIT RMVLVVVGA FVWCWAPIHIF VIVMTLVDID RRDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCER QLCKRKCGRP DSSFSRPRE ATARERTAC TPSDGPGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggcctgaac caaacggtgc catggggaac tgtctgcaca ggttgagtat ggggccaggc A cccagagtcc cttatcccta tgcccctcat ttcccctgct gttggcccct cagtctttat atctcttctt ttctctctc atctttctc ccttcccgt ttttctctt ccttcaaaag tcttttctt tctctcttc ctatgtagc cctctagtc cttcttggt ccttccctt gcctttgagt cagttccatc ctggtctctt ggtgcttctt cttctgacct tgcactgctc ctccagcccc agctgacctg gcttccccag gactgttctt gctcgggctc ttcagggtcc ctgctttgtc ctttccact gtcgcgactg catctgactc ctgcagagac cttgttctcc caccgacct tctctctgt cctcccctc cactgcccc tcaattccca ggagactctt ccggtgtaac tctgatggcc tctctgggt atgtctcca ggcggagctc tccccctcaa ctgagaactc aagtcagctg gacttcgaag atgtatgaa ttctctcat ggtgtgaatg attccttccc agatggagac tatgatgcca accgtgaagc agctgcccc tgccactct gtaacctgct ggtgactct gcactgacct tcttcaacct caccagtgtc ctgggtatcc tagctagcag cactgtctc tcatgcttt tcagacctct cttccgctgg cagctctgcc ctggctggcc tgtcctggca cagctggctg tgggcagctg cctcttcagc attgtggtgc ccgtcttggc cccagggcta ggtagcactc gcagctctgc cctgtgtagc ctgggctact gtgtctggta tggctcagcc ttgcccagg ctttgcctg aggtgtgcat gcctccctgg gccacagact ggtgcaaggc caggtccca gctcaccct ggggctcact gtgggaattt ggggagtggc tgccctactg acactgctg tcacctggc cagtgtgtct tctggtggac tctgcacct gatatacagc acggagctga aggtcttgcg gccacacac actgtagcct gtcttgccat cttgtcttg ttgcccattg gttgttttg agccaaagggt ctgaagaagg cattgggtat ggggccaggc cctggatga atactctgtg ggcctggtt atttctggt ggcctcatgg ggtggttcta ggaactgatt tccgtggtgag gtccaaagctg ttgctgtgt caacatgtct gggccagcag gctctggacc tgcgtctgaa cctggcagaa gccctggcaa ttttgcaactg tgtggctacg cccctgctcc tgcgccattt ctgccaccag gccaccgca ccctcttggc ctctctgccc cctccatgaag gatgtcttc tcatctggac acccttggaa gcaaatccta gttctcttc cactgtcaa cctgaattaa agtctacact gcctttgtg NP_002027.1 MASSGYVLQA ELSPSTENSS QLDFEDVWNS SYGVNDSFPD GDYDANLEAA APCHSCNLLD P DSALPFILT SVLGILASST VLFMLFRPLF RWQLCPGPV LAQLAVGSAL FSIVVPVLAP GLGSTRSSAL CSLGYCVWYG SAFAQALLLG CHASLGHRLG AGQVPGTLTG LTVGINGVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAI FVLLPLGLFGA KGLKKALGMG PGPWNILWA WFIFWPHGV VLGLDFLVR KLLLLTCLIA QQALDLLLNL AEALAILHCV ATPLLLALFC HQATRTLPS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacacc tggaccacca ccaatgggata tacaatggc aaacaatttt A actccgccct ctgcaactcc tcagggaat gactgtgacc tctatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctcttca tcattgggct cgtgggaaac ttactagcct tggctgctcat tgttcaaac aggaaaaaa tcaactctac caccctctat tcaacaaatt tggtgatttc tgatatactt ttaccacccg tttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaatc tgagatccg ttgttaggat aactgcgcta gtgttttaca tcaacacata tgcagggtg agatttatga cctgcctgag tattgaccgc ttcattgctg tgggtcaccc tctacgctac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tattgtctg gattctagta ttgtctaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaaggatt acatgcatgg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgcttggg gcatgtttca taggatagt acttccactt ataatcattc tcattctgcta ttctcagatc tgctgcaaac tcttcagaac tgccaaacaa aaccactca ctgagaaatc tgggttaaac aaaaaggctc tcaacacaa tattcttatt attgttgtgt ttgtctctgt ttccacacct taccatgttg caattattca acatatgatt aagaagcttc gtttctctaa ttctctggaa tgcagccaaa gacattcgtt ccagattttct ctgcacttta cagtgtcct gatgaactc aattgctgca tggacccttt tatctacttc tttgcattga aagggtataa gagaagggtt atgaggatgc tgaacggca agtcagtgtg tcgatttcta gtgctgtgaa gtcagccct gaagaaaatt cactgaaaat gacagaaacg cagatgatga tacattccaa gtcttcaaat ggaagtgaa atggattgta ttttggttta tagtgacgta aactgtatga caaactttgc agacttccc ttataaagca aaataattgt tcagcttcca attagtattc tttatatatt ctttcattgg gcactttccc atctccaaact cggaagtaag cccaagagaa caacataaag caaacacat aaagcaaat aaaaatgcaa ataaatattt tcatttttat ttgtaaacga atacacaaa aggagcgct cttataaact cccaatgtaa aaagttttgt ttaataaaa aatttaatta ttatttcttg ccaacaaatg gctagaagg actgaataga ttatatattg ccagatgtta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gttttgtttc gttctgggtc ataaaacttt gtttaaggaa tcttttgga taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALWIVQNR P KKINSTTLYS TNLVISDILF TTALPTRIAY YANGFDWRIG DALCRITLV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFWILVF AQTLP LLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLP LI IILICYSQIC CKLFRTAKQN PLTEKSGVKN KALNTIILII VVFLCFPTY HVAIIQHMIK KLRSNFLEC SQRHFSQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSVS ISSAVKSAPE ENSREMTETQ MMIHSKSSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatcctga gagcactccc A aggtagcat ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccctgg aggatcaaca cagtggctga acactggga ggaactggta ctggagctt ggacatctga aacttggtc tgaactgcg cagcgccac cggagcctt ctggagcag tagcagcatg cagccgctc caagtctgtg cggacgcgc ctggtctgc tggttctgc ctgcgccctg tcgcgcatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gctttgcaa	Homo sapiens

accgcagaga taatgacgcc accactaag acctatggc ccaagggttc caagccagtc
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cataccctgt gaagacaata ctatctacaa ttttttcagg attattaaaa tcttctttt
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gctatagtta aaatactatt ttcaaaaatc atacagatta gtacatttaa cagctacctg
taagcttat tactaattt tgtattattt ttgtaaatag ccaatagaaa agtttgcttg

114	1486	Endothelin B NP_000106.1 Receptor	<p> acatgggtgct tttctttctat ctaggagcaa aactgctttt tgagaccgta agaacctctt agcttttgctg gttctgctt aatttttata tcttctaagc aaagtcctt aggatagctt gggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aatgaggtg gggttggagg aaacccatgg ggacagattc ccattcttag cctaacgttc gtcattgctt cgtcacatca atgcaaaagg tctgatttt ttccagcaa aacacagtcg aatgttctca gagtgaacttt cgaataaagt tgggcccagg agtcttaaaa atatgcccac atttttactt tgtttttctt ttaataggct gggccacatg ttggaataaa gctagtaatg ttgttttctg tcaatattga atgtgatgg acagtaaac aaaaccaac aatgtggcca gaagaaaga gcaataataa ttaattcaca caccataggg attctattta taaatcacc acaaacctgt tctttaatt catcccaatc actttttcag aggcctgcta tcatagaagt cattttagac tctcaatttt aaattaattt tgaatcacta atattttcac agtttattaa tatatttaat tcttatttaa attttagatt atttttatta ccatgtactg aatttttaca tctgatacc cttctcttct ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaactaca cacaaaaagc atacttgcat tatttataat aaaattgcat tcatgggctt tttaaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat tctttacat actcaaaacc aagatagaaa aaggtgctat cgttcaactt caaacatgt ttcctagat taaggacttt aatatagcaa cagacaaaat tattgttaac atggatgta cagctcaaaa gatttataaa agattttaac ctattttctc ccttattatc cactgcta gtgatgtat gttcaaacac cttttagat. tgatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgctgtagc taactttata aaagttaat ataacaatgt aaaaaattat atatctggga ggaatttttg gtgcctaaa gtggctatag ttactgattt ttattatgt aagcaaaacc aataaaaaat taagtttttt taacaactac cttatttttc actgtacaga cactaatca taaataacta atgtattgtt taaaagaaa ataaatgtga caagtggaca ttattatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaagccac atttctgctc tctggg </p>	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	<p> MPDPSLCGR ALVALVLAGC LSRIWGEERG FPDPRATPLL QTAEIMTPPT KTLWPKGSNA P SLARSLAPAE VPKGDRFAGS PPTISPPC QGPTEIKETF KYINTVVVSL VFVLIIGNS TLLRIYKNK CMRNGPNILI ASALGDLH IVIDIPINVY KLLAEDWPEF AEMCKLVFFI QKASVGITVL SLCALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAQMIFYK TAKDMWLFSE YFCLPLAITA FFYTLMTCEM LRKSGMQIA LNDHLKQRRE VAKTVFCLVL VFALCWLPPLH LSRILKLTLY QNDPNRCEL LSFLLVLDYI GINMASLNSC INPIALYLV KRFKNCFKSC LCCWCQSFE KQSLEEKQSC LKFKANDHGY DNFSSNKYS SS gaattcgcgg cgcctcttg cggctccaga gtggagtggga aggtctggag ctttgggagg A agacgggggag gacagactgg aggcgtgttc ctccggagtt tctttttcgg tgcgagccct cgcgcgcgcg tacagtcac cgcgtggtct gagattgtg gagagcggtt ggagagcctt catccatccc acccggctgt cgcgggggat tgggggtccc gcgacacctc cccgggagaa gcagtggcca ggaagtgttc tgaagccggg gaagctgtgc agccgaagcc gccgcgcgcg cggagcccgcc gacaccggcc accctccgag caccacccc tcgctttctc cggcttctc tggcccgagg gccgcgcgga cccggcagct gtctgcgcac gccgagctcc acggtgaaaa aaaaagtga ggtgtaaaa gacacaagt gcaataagag atattttctc aaatttgctt </p>	Homo sapiens

caagatggaa accctttgcc tcagggcac cttttggctg gcactgggtg gatgtgtaat
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accagcaat ggctcaatgc acaactattg ccacagcag actaaaatta cttcagcttt
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cttcttctt aattcactcc cacaccaag aagaaatgct ttccaaaacc gcaaggtaga
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aatagtattc aggtgagcaa tagattagt attttccacg tcaatttta tttttttaa
acacaaattc taaagctaca acaatacta caggccctta aagcacagt tcatgacaca
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atggtgtttt attacaagg accttgaaca tgttttgtat gttaaattca aaagtaatgc
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cacctctat tctcttaatt ttgttataaa tgttaactgg cagtaagtct ttttgcata
ttcccttttc catatagaa acataatttt gaagtggcca gatgagtta tcatgtcagt

116	1488	Endothelin A NP_001948.1 Receptor	gaaaaataat taccacaaa tgcaccacgt aactaaacga ttcttcactt ctctggggttt tcagtatgaa cctaactccc caccaccaaa tctccctccc acattgtcac catttcaaa ggccacacgt gacttttctg ggcatttttc ccagatgttt acagactgtg agtacagcag aaaatctttt actagtgtgt gtgtgtatat atataaaca ttgtaaaattt cttttagccc atctttctag actgtctctg tggaatatat aatctaatat gatatatgca tgtgtgtgat ggatgtatg gatttaattt aatctaatat aatctaatat gattgtgccc aagtgacata gtctgagcta aaacttaggt gattgttcat ctgaccaacc tgcctcagtc cattttaacc tgtagcaacc ttctgcattc ataaatcttg taatcatgtt accattacaa atgggatat agaggcagcg tgaagcaga tgagctgttg actagcaata tagggttttg ttgtgttgtt tggtttgata aagcagtatt tgggttcata ttgtttcctg tgcaggagca aagtcatta cactttgaag tattatatgt ttcttatcct caattcaatg tggatgata attgccaggt tgtctgatat ttctttcaga ctctgccaga cagattgctg ataataaatt aggtaaagata attgtgtggg ccataattta ggacaggtta aataacatca ggttccagtt gcttgaattg caaggctaag aagtactgcc ctctttgtgt ttagcagta aatctattat tccactggcg catcatatgc agtgatatat gcttataata taagccatag ttccacacca tttgttttag acaattgtct ttttttcaag atgctttgtt tctttcatat gaaaaaaatg cattttata attcagaaa tcatagattt ctgaaggcgt caactgtgcat ttattttatg gactggtaag taactgtggt ttactagcag gaatatctcc aattctacc ttactacat cttttcaaca agtaactttg tagaaatgag ccagaagcca aggccctgag ttggcagtggt ccataaagt taaaataaaa gtttacagaa acctt	Homo sapiens
117	1598	Calcium-Sensing Receptor (CASR)	caacaggcac ctggctgcag ccaggaagga ccgcacgccc ttctcgcgag gagagtggaa A ggaggagcgt gtttgcagc accgaggtct tgcggcacag gcaacgcttg acctgagctt tgagaaatga aaggcatcac aggagcctc tgcattgatgt ggttccaaa gactcaagga ccaccacat tacaagtctg gattgaggaa ggcagaaatg gagattcaaa caccacgtct tctattattt tattaatcaa tctgtagaca tgtgtcccca ctgcaggag tgaactgctc caaggagaa acttctggga gcttccaaac tctagctgt ctcacccctt gccctggaga gacggcagaa ccattggcatt ttatagctgc tgcgtgggtc tcttggcact cactggcac acctctgctt acgggccaga ccagcgagcc caaaagaagg gggacattat ccttgggggg ctctttccta ttcatatttg agtagcagct aaagatcaag atctcaaatc aaggccggag tctgtggaat gtatcaggta taatttcctt ggggttctgct ggttacaggc tatgatattt gccatagagg agataaacag cagcccagcc ctcttccca acctgacgct gggatcacag atatttgaca ctgcaaacac cgtttcttaag gctttggaag ccacctgag ttttgtgct caaaacaaaa ttgattcttt gaaccttgat gatttctgca actgctcaga gcacattccc	Homo sapiens

tctacgattg ctgtggtggg agcaactggc tcaggcgctct ccacgggcagt ggcaaatctg
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aagcgttcca gcagccttgg aggtccacg ggatccacc cctcctctc catcagcagc
aagagcaaca gcgaagaccc attccacag ccgagaggc agaagcagca gcagccgctg
gccttaacc accgaagaca gcagcagcag ccctgacc tccccagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	MAFYSCCWVL LALTWHTSAY GPDQRAQKKG DIILGGLFPI HFGVAAKDQD LKSRPESVEC P IRYNFRGFRW LQAMIFAIEE INSSPALLPN LTLGYRIFDT CNTVSKALEA TLSFVAQNKI DSLNLDEFNC CSEHIPSTIA VVGATGSGVS TAVANLLGLF YIPQVSYASS SRLLSNKNQF KSELRTPND EHQATAMADI IEYFRWNWVG TIAADDDYGR PGIEKEREAA EERDIDCFDS ELISQYSDEE EIQHVVEVIQ NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA SSSLIAMPQY FHVVGGTIGF ALKAGQIPGF REFLKKVHPR KSVHNGFAKE FWEETFNCNL QEGAKGPLPV DTFLRGHEES GDRFSNSSTA FRPLCTGDEN ISSVETPYID YTHLRISYNV YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAWQV LKHLRLNFT NMGEQVTFD ECGDLVGNYS IINWHLSPED GSIVEKEVGY YNVYAKKGER LFINEEKILW SGFSREVPFS NCSRDCLAGT RKGIIEGEPT CCFECEVECPD GEYSDETAS ACNKCPDDEFW SNEHTSCIA KEIEFLSWTE PFGIALTLFA VLGFILTAFL LGVFILKFRNT PIVKATNREL SYLLLSLLC CFSSSLFFIG EPQDWTCLRL QPAGGISFVL CISCILVKTN RVLLVFEAKI PTSFHRKWWG LNLQFLLVFL CTFMQIVICV IWLYTAPPS YRNQELEDEI IFITCHEGSL MALGFLIGYT CLLAACIFFF AFKSRKLPEV FNEAKFITFS MLTFFIVWIS FIPAYASTYG KFVSAVEVIA ILASFGLLA CFFENKIYII LFKPSRNTIE EVRCSTAHA FKVAARATLR RSNVSRKRSS SLGSTGSTP SSSISSKSNS EDPPQPERQ KQQQLALTQ QEQQQQLTL PQQRSQQQP RCKQKVIIFS GTVTFSLSD EPQKNAMAHG NSTHQNSLEA QKSSDTLTH QPLLPLQCGE TDLDLTVQET GLQGPVGGDQ RPEVEDPEEL SPALVVSSSQ SFVISGGST VTENVNS	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	ggcacgagga acaacctatt tgcaaatgtg gcgcaaacat tcctgcctga caggaccatg A gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag aattaatagg acttgatagg gattgtggtg agagaaagtg aaatgaaaga taagtcttag tttggaagt ttaacaaactg aatgttttaa ctcaaataga cacaaaatat tggaagagtg gcaggtttgg gaggatgaga caatcaactg ttgtgttag ccacgttag ttgaaatgt ctacgggac ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct gatagtttag atgaaaagag agcatgatat ttttagccct gagactggat aatatcacct atagaaagac tatatagaga taagagaggt gggaacaaag taaaagctgc ggacactcc taaatattaga gtaaatatta gagcagaaaa tactagcaaa ggggactgaa aagcgggtggc caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta catttatcat ctcatggcac aggaataacg tgatttaagg agaaggaagc gatccaatgg gaagaagaga tccaatggat cctctatcac gaagatatgt agataagaac caatatggat ttgcacccac tgcatattgca gccttgaggt cataagcatc ctacagaaaa tgaccaggt gctgctggca agatggaaac	Homo sapiens

120	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	caactttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tggtctgcgg atcctcccat tggtggtgct tggggtcacc tttgtcctcg ggtcctcggg caatgggctt gtgactcggg tggctggatt ccggtatgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttgctcggcc acattaccat tcctcattgt ctccatggcc atgggagaaa atggccctt ttgctggttc ctgtgtaagt taattcacat cgtggtggac atcaacctct ttggaagtgt cttcttggat ggtttcattg cactggaccg ctgcatttgt gtcctgcac cagtctggc ccagaaccac cgcactgtga gtctggccat gaaggtgac gtcggacctt ggattcttgc ccaatgggga cacatactgt acttcaact ttgcactctg tttgactaca gtaactatc ccaatgggga ggcctgaagt ggcattacc atgctgacag ccagagggat gggtggcacc cctgagaga gctgctgct ttagcttgc gatgtccatt gttgccatct gctatgggct tatccggttt gtcattggct aagatccaca aaaaggcat gattaaatcc agccgtccct tacgggtcct cattgcagcc agatccaca tcttcatctg ttggtttccc ttccaactgg ttgcccttct cactgctgtg ttggtcaaa agatgttgtt ctatggcaag taaaaatca ttgacatcct gggaccctgc ttggtcaaa acgagctccc tggccttctt caacagctgc ctcaaccca tgccttaact ggtaaccca acgagctccc caagacttcc gagagagact gatccactcc ctgccacca gtctggagag ctttgtgggc gaggactcag cccaactaa tgacacggct gcaattctg cttcacctcc ggcctgtct gaggactcag caatgtgagg atggggtcag ggatattttg agttctgttc tgcagagact gagttacagg aatgttcat ctacccttga gtcataatga ggcattcaag atcctacctt aatgccagt ttcaaggaaa aatgcttttg tgcctctgat ttggggctaa gatgcacagc tcaagtattt taaaatatta ttgtttttt ttgtttttt acttctgct gaaatagaca gtcaggctac tgggaaata caagacagga aagaccagtg gggatttga ataccctggg gtaagtggag ataaatagg gaagacttta aagtataaag taaaatgttt agacttagat gagatagcc tttatatagt attaaaaaa atcagattat ggaagttttc ttctattttt gctgtaggtt tttatatagt attaaaaaa atcagattat ggaagttttc ttctattttt agtttgctaa gagttttctg tttcttttc ttacatcatg agtggacttt gcattttatc aaatgcattt tctacatgta ttaagatggt catattattc tctctcttt atgtaaatca ttataaataa tgttcattaa gttctgaatg ttaaaactact ctggaattcc tggaaataaac cacacttagt cctgatgtac ttataactg ttataatatt tatatctcac aggagtgtgt tagaatttct gtgtttatgt ttataactg ttataactg ttataactg ttataactg ttataactg aaaataaaga acaagagaa acttgtaatg gtctctgaaa aggaatgtgag aagtaattcc tctgattctg tttctggtg ttatactttt attaaatatt cagaaaaatt c tctgattctg tttctggtg ttatactttt attaaatatt cagaaaaatt c	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	TICYNLALA DFSFTATLPE LIVSMAMGEK WPFGWFLCKL IHIVVDINLF GSVFLIGFIA LDRICVLHP VMAQNHRTVS LAMKVIVGPW ILALVLTLPV FLFLTFTVIP NGDTYCTFNF ASWGTPEER LKVAITMLTA RGIIRFVIGF SIPMSIVAIC YGLIAAKIHK KGMIKSSRPL RVLTAVVASF FICWFPPQLV ALLGTWLKE MLFYGYKII DILVNPTSSL AFFNSCLNPM LYVFGQDFR ERLIHSLEPS LERALSEDSA PTNDTAANSA SPPAETELQA M cgctgagatc tgtggaggtt tttctctgca aatgcagaaa gaaatcaggt ggaatgagtc A ataattatgg cctgtctcct ggtctctttg ctgctcttcc tgagcttggg ctgaggtgt catcatcgga ctgtgactg ctctaacagg gtttttctct gccaagagag caaggtgaca gagattcctt ctgacactcc gaggaatgcc attgaaactga ggtttgtcct caccaagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cagatcatcc aaaaaggtgc attttcagga ttgggggacc tgagaaaaat agagatctct cagaatgatg tcttgaggt gatagagga gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaggg caacaacctg ctctacatca cccctgaggc cttccagaac cttcccaacc ttcaatatct gttaatatcc aacacaggtt ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta ctgacagatt aagataaacat aaacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggctgaat aagaatggga ttcaagaat acacaactgt gcattcaatg gaaccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgcctaag atgtttcca cggagcctct ggaccagtca tttagatat ttcaagaaca aggatccatt cctgcctag ctatggctta gaaaatctta agaagctgag gccaggtcg acttacaact taaaaagct gctactctg gaaaagcttg tcgacctcat ggaagccagc ctacactatc ccagccattg ctgtgccttt gcaaaactgga gacggcaaat ctctgagctt catccaattt gcaacaatc tatttaagg caagaagtgg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcagct acagcagagg atttgacatg acgtacatg agttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtccctcct aagccagatg cattcaacc atgtgaagat atcatgggtt acaacatcct cagagtcctg atatggttta tcagcatcct ggccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat ctctgactg gaattacat gctgctcatt gcatcagttg atatccatc caagagccaa tatcacaact atgccattga ctggcaaat gggacaggt gtgatgctg gggcttttc actgtctttg ccagtgcct gtcagctcac actctgacag ctatcacctt ggaagatgg gataccatca cgcattgcat gcagctggac tgcaaggtgc agtccgcca tgcggcagt gtcactgtga tgggtggat ttttgccttt gcagctgcc tctttccat ctttggcatc agcagctaca tgaagtgag catctgcctg cccatggata ttgacagccc ttgtcacag ctgtatgtca tgtccctct tgtctcaat gtcctggcct ttgtggctcat ctgtggctg tatatccaca tctacctcac agtgcggaac cccaacatcg tgcctctc tagtgacacc aggatcgcca agcgcattggc catgctcatc ttcactgact tctctgcat ggcaccatt tctttctttg ccattttgc ctcctcaag gtgcccctca tcaactgtgc caagcaaa atctgtctgg ttctgtttca ccccatcaac tctgtgcca acccttct ctatgccat ttaccaaaa actttgcag agatttcttc attctgtga gcaagtgtg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcaccactg tccacaacac ccattccaag aatggccact gctcttcagg tccagagtc accagtgggt ccacttacat actgtccct ctaagtcatt tagcccaaaa ctaaaacaca atgtgaaaaat gtactgagt attgaaatg aattcagtc ttgcctttga aggtatgtc acaaggagct gacagtgtt ctacacattt catctaattt aatatctctg gcataccttt aaggtaaaat ggtcaggaa tattaatcc atgtgatata ttaggaagct gaattattag taacaacaat aataataaaa gaatgcaata ctgtaaaaa gcggcccgga att </p>	Homo sapiens
122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> MALILVSLA FLSIGSGCHH RICHCSNRVF LCQBSKVTEI PSDLPRAIE LRFVLTKLRV P IQKAFSGFG DLEKIEISQN DVLEVIEWADV FSNLPKLHEI RIEKANNLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNIHITI ERNSFVGLSF ESIVLWLNKN GIQEIHNCAP NGTQLDAVNL SDNNNLEELP YPHSHGASGP VILDISRTI HSLPSYGLN LKKLRARSTY NLKKLPLEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE </p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p> VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFDYDLNE VDVTCSPKP DAFNPCEIM GYNILRVLIW FISILAITGN IIVLVILTS QYKLTVPRLF MCNLAFAADLC IGIYLLLIAS VDIHTKSQYH NYAIDWQTGA GCDAAGFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VQLRHAASVM VMGWIFAFAA ALFFIFGISS YMKVSICLPM DIDSPLSQLY VMSLLVLNL AFVVICGCI HIYLTVRNP IVSSSDTRI AKRMAMLIFT DFLCMAPISE FAISASLKV LITVSKAKIL LVLEHPINSC ANPFLYAI FT KNFRDRFFIL LSKCGCYEMQ AQIYRTETSS TVNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN </p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p> gccaaactcg tgggtgctcg ggtgaatc cagcgcaaga ccacaggcta tgacacgcac A tgcatactc tgaactggc catcgccgac ctgtgggtg tectacat cccagctcgg gtggtcagtc tctgagcga caaccagtg cccatgggag agctcacgtg caaagtcaca cactcatct tctccatcaa cctcttcagc agcatcttct tctcacgtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggtg cgccgtgctg tctgcatcct ggtgtggctg ctggccttct cgtgtctctt gctgacacc tactacctga agaccgtcac gtctgctgcc aacaatgaga cctactgccg gtccctctac cccgagcaca gcatcaagga gtggtgctg ggcattggag tggctccgtg tgccttgggc ttgcccgttc cctctccat tatcgctgct tctacttcc tgcctggcag agccatctcg ggtccagtg accagagaa gcacagcgc cggaagatca tctctccta cgtggtgggc tctctgtct gctggttgc ctaccagtg gcggtgctgc tggacatctt ctccatctg cactacatcc ctttaccctg ccggtggag cagccctct tccagggcct gcatgtcaca cagtgcctgt cgtggtgca ctgctgcgc gaaggcctc atctcaagt actcgccaa aacaggctc aactacaggt acgagctgat gaaggcctc agagctcga gagcggagt acttgcctt ggagcagagc accaaatgat ctgcccgtga gaggctctg gacgggttga cttgtttttg aacagggtga tgggccctat ggttttctag agcaaagcaa agtagcttcg ggtcttgatg cttgagtaga gtgaagaggg gagcacgtgc cccctgcac cattctctct tctcttgat gacgcagctg tcatttggct gtgctgctg acagtttgc aacaggcaga gctgtgctgc acagcagtcg tgtgctcag agccagctga ggacaggctt gcctggactt ctgtaagata ggattttctg tgttccctga atttttata tgggtgattg tatttaaat ttaagacttt attttctcac tattggtgta cctataaat gtatttgaaa gttataata ttttaatat tgtttgggag gcatagtct gacataat cagagtgtg tagttttaag gttagcgtga cttcagttt tgactaagga tgacataat tgttagctgt ttgaaataa tatataata aatatataa tatatgccag tcttggctga aatgttttat ttaccatagt ttatatctg tgtggtgtt tgtaccggca, cgggatatgg aacgaaaact gctttgtaac gcagtttctg acattaatag tattgtaag ttacattta aaataaaca aaaactgttc tggactgcaa atctgcacac acaacgaaca gttgcatttc agagagttct ccaatttgt aagttatttt tttttaataa agatttttgt ttcctaaaa aaaaaaaaaa aaaaaa MDLHLFDYAE PGNFSDISWP CNSSDCIVVD TVMCPNMPNK SVLLYTLSEI YIFIVIGMI P ANSVVWVNI QAKTGYDTH CYILNLAIAD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTMSV DRYLSITYFT NTPSSRKKM RVVCILVWL LAFCVSLPDT YYLKTVTSAS NNETYCRSFY FEHSIKEWLI GMELYSVVLG FAVPFSIAV FYFLIARAIS ASSDQEKHSS RKIIFSYYV FLVCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT </p>	Homo sapiens

125	1762	Galanin Receptor GalR1	NM_001480	AK	QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSAKTGL TKLIDASRVS ETEYSALEQN	Homo sapiens
					atccccgtag aatcgcgtcca gtctctgtctc gcgcaccgtg acttctaagg ggcgcggtatt A	
					tcagccgagc tgttttcgcc tctcagttgc agcagagaag cccctggcac ccgactctat	
					ccaccaccag gaagctctccc aaaagagctc tcgcctcttg gcgactctgg aatccctgga	
					aaagccggga ggaagtccga gcgcccagcc cactggggag gtggcgctgg gcgcgcggga	
					tgccgcgga gccctctctg caggagccgc acagtgcact gctgcgcgt ggccagtgcg	
					gggaagcgcc gcgggaagga gcggctccga gcaacaggtg cagcacgcag ccgctccggg	
					agccaggga aaccgcggc gaagatctgg agcggtaagg cgaagagaa ggctcttcca	
					cctgcgcgc tgcaacggc ggatecctct tcccaggctc cgtggtcgcg cagcgggcgg	
					agcgccccg gcaggggacc ccagtgtctt cgagatcacc gtcccttccc gagaaggctc	
					agctccggg tcccgaaacc accctctctc agaaggtcgc ggcgaaaga cggcgccacc	
					aggaacggcc accggatccc cgtctccgct ggctgcgcgc tggggggaag ctcagactcc	
					taaaactgca ctctcgtgc ttgcgccgg gacctctgg caccctggc gctgctatc	
					ccgcccccc tccccggcg ccccgccgct gcggggaca gccccggg ccatggagct	
					ggcggtcggg aacctcagc agggcaacgc gagctggcg gagcccccg ccccgagcc	
					cgggcccgtg ttccggcatcg gcgtggagaa ctctgtcacg ctggtggtgt tcggcctgat	
					cttcgcgtg ggcgtgctgg gcaacagcct agtgatcacc gtgctggcg gcagcaagcc	
					gggcaagccg cggagcaca ccaacctgtt catcctaac ctgagcatcg ccgacctggc	
					ctacctgtc ttctgcattc ccttccaggc cactgtgtac gcgtgccc cctgggtgct	
					ggcgccctc atcgcgaagt tcattccacta ctcttcacc gtgtccatgc tggtagcat	
					cttcaacctg gccgcgatgt ccgtggaccg ctacgtggcc atcgtgcact cgcggcgctc	
					ctctccctc aggtgtccc gcaacgcgt gctgggcgtg ggctgcactt ggcgctgtc	
					cattgccatg gcctgcgcg tggcctacca ccagggcctc ttccaccgc gcgccagcaa	
					ccagaccttc tgctgggagc agtggcccg cctcgccac aagaaggcct acgtgggtg	
					caacttcgtc ttgggtacc tgctgcgct ctgtctcatc tgcttctgt atgccaaggt	
					ccttaatcac ttgcataaaa agttgaagaa catgtcaaa agtctgaag catccaagaa	
					aaagactgca cagacagtcc tgggtgtgtt tgggtgtttt ggaatctctt ggctgcgca	
					ccacatcatc catctctgg gcctggcgtg ctgagtttg agttttccc ctgacgcgg ctctctct	
					cttcagaatc accgccact cctgggcgtg cagcaattcc tccgtgaatc ctatcattta	
					tgcatctctc tctgaaaatt tcaggaaagg ctataaaca gtgttcaagt gtcacattcg	
					caaagattca cacctgagtg atactaaga aaataaaagt cgaatagaca cccaccatc	
					aaccaattgt actcatgtgt gataaaagt agagtatcct tatggttgag ttccatata	
					agtggaccag acacagaac aaacagaatg agctagtaag cgaatgctga acttggtatc	
					ttacaagaa ttcaagtctg tttaattaaa tccacgtgt gttaaaagt actttgatcc	
					atttaggaaa ttcctaggtc tagtgagaat tattttcaa tttttttta gtctaaatt	
					atgtttcaga aacaaaagac aatgctgtac agttttatc ctcttcagac atgaaaggga	
					acatatatat tccatatata tgttcaactc ttctagatt gtgaactggc ccatcaatat	
					ggtcagggaat atttgacgtc tacattttta agccaattta tttagaaaa aaatttgagc	
					tttaattctt taattttaag agaagtaata ttgtgaacta tgtatttttaaat aatatgatca	
					tggacacaca atgatgaatt ttttgccat ttacatagac atatctatta agtggaaga	

126	1762	Galanin Receptor GalR1	NP_001471.1	agggtttctg aagtctgttt gcacaggtgg catttgcttc caattgtagc tagcgacacg agctttggaa gcctgtcatt atgagataca gtcgggtttac ctcaggagtc aattcagtg tgtactggtg acctgggatg cagtagtagg cactgttgat tcaatttat cctgtgaaac tggtttata gaggtaacaa acagagtgca gagaccactg ttttaacagt ggaagatgca aataagtttt tgagaataaa actggatttt gaaattttac attagtactt gacaaaagtt ttcattttgc cttgaatgga acctactaaa agagagatg aaaaaaatc agcgaggttg atgtagataa taattttctat gggaccaaag actagacaga attcagtaag tcacatgaag taatggtcat gcctgtacat aaagcatatt tcatgttga tttgatgac attcaaaaa aatcatggga ctgaatatac ctgggggtat ctatcttga caaatgcatg ctttttcatt aaatttgtaa tgatgtttaa tgaacatttc caccacacat tatttctct aaaaatgta atttggggtt aaaccatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtgtg ttacaatga gaaaatggca tgaatatatt aaattgtctt gtatcg	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	MELAVGNLSE GNASWPEPPA PEPGLFGIG VENFVTLVVF GLIFALGVLG NSLVITVLAR P SKPKRPRSTT NLFILNLSIA DLAYLLEFCIP FOATVVALPT WVLGAFICKE IHYFFTVSML VSIFTLAAMS VDRYVAIVHS RRSSSLRVS RALLGVGCIW ALSIAMASPV AYHQGLEHPR ASNQTFCEWQ WPDPRHKKAY VVCTFVGYL LPLLLICFCY AKVLNHLHKK LKNMSKKSEA SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVFPPLTPA SEFRITAHK LAYSNSVNP IIYAFLENF RKAYQVFKC HIRKDSHLS D TKNKSRIDT PPSTNCITHV ggcagcggtg gcaggggctg caggagcaa gaccaggag caggactggg gacaggcctg A atgcgccctg caccgaaccag acctctgcc gccttcacga tgactacctc tccgatcctg cagctgctgc tgcggctctc actgtgcggg ctgtctgtcc agaggggcga gacaggctct aaggggcaga cggcggggga gctgtaccag cgtcgggaac ggtaccgca ggaagtccag gagacctgg cagcgcgga accgccttca ggctcgcct gtaacgggtc ctctgatag tacgtctgct gggactatgc tgcacccaat gccactgccc gtgcgtcctg cccctggtag ctgccctggc accaccatgt ggctgcaggt ttctgtctcc gccagtgtg cagtgtggc caatggggac ttggagaga ccatacacia tgtgagaacc cagagaagaa tgaggccttt ctggacaaa ggtcatctt ggagcgggtg caggtcatgt acactgtcgg ctactccctg tctctgcca cactgctgct agcctgctc atcttgagt ttgtcaggcg gctacattgc actagaaact ataccacat caactgttc acgtcttca tgctgcgagc tgcggccatt ctcagccgag acctctgct acctgacct ggccctacc ttggggacca ggccttgctg ctgtggaacc agccctcgc tgcctgcgc agggccaca tcgtgacca gtactgcgtg ggtgccaact acactggct gctgtggag ggcgtctacc tgcacagtct cctggtgctc gtgggaggt cagaggagg ccactccgc tactactgc tccctggctg gggggccccc gcgttttctg tcttccctg ggtgatcgtc aggtactgt acgagaacac gcaagtgtg gagcgaacg aagtcaaggc catttggtg attatacga ccccatcct catgaccatc ttgattaatt tctctattt tatccgcat ctggcattc tctgtccaa gctgaggaca cggcaaatgc gctgcggga ttaccggctg aggtcggctc gctccacgt gacgtggtg ccccgtctg gtgtccacga ggtggtgtt gctccctga cagaggaa ggcctggg gcccgtcgt tcgccaagct cggctttgag atctcttca gctccttcca gggcttctg gtcagcgtc tctactgctt catcaacaag gagggtcag cgagatccg cctggtcgtg caccactgcc gcctgcgctg cagcctggc gaggagcaac gccagctccc ggagcgcgcc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p>ttccggggccc tgcctcccg ctcgggccc ggcgaggtcc ccaccagccg cggcttgctc</p> <p>tcggggaccc tccaggggcc tgggaatgag gccagccggg agttggaaaag ttactgctag</p> <p>ggggcgggat cccgtgtct gttcagttag catggattta ttgagtcca actcgtgcc</p> <p>agggccagta cggagagcgc tggggaatg gtgaaggaaa cagaaaaag gtccctgcc</p> <p>ttctggagat gacactgag tggggaatg agaccgtgaa cacaaacat caagtccac</p> <p>acacgtatg gaatggttat gaagggaagc gagaggggg cctagggtgg tctgggagcc</p> <p>gtctccaagg agtgacact taagccatcc ccgaagagg tgaagagat cactttgggg</p> <p>agagctggag aacaggattc tagcggaag cgatagcata ggcaaggcc cttgggcagg</p> <p>aaggcgtca gcctggctg gagtagaatt aagtcagagc caacaggctg gggagagaca</p> <p>gagaagtggg cagggcacc caagtggga ttctatttca ggtgattgg agattcttag</p> <p>gagtgtctct tgggggtaat attttattt ttaaaaaatg aggat</p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p>CNGSFDMYC WDYAAPNATA RASCPWYLPW HHVAAAEVL RQCGSDQWG LWRDHTQCEN</p> <p>PEKNEAFLDQ RLILERLQVM YTVGYSLSLA TLLALLLIS LFRRLLHCTRN YIHINLFTSF</p> <p>MLRAAAILSR DRLILPRPGY LGDQALALWN QALAACRTAQ IVTQYCVGAN YTWLLVEGVY</p> <p>LHSLILVVG SEEGHFRYLY LLGWGAPALF VIPWVIVRYL YENTQWERN EVKAIWIIIR</p> <p>TPILMTILIN FLIFIRILGI LLSKLRTROM RCRDYRLRLA RSTLLVPLL GVHEVVFAPV</p> <p>TEEQARGALR FAKLGFELF SSFQGLFSV LYCFINKEVQ SEIRRGWHHC RLRRSLGEEQ</p> <p>RQLPERAFRA LPSGSGPGEV PTERGLSSGT LPSPGNEASR ELESYC</p> <p>ccagattcta aatatcagga aagacgctgt gggaaaaatag caggccaaaa gtcttagta A</p> <p>aactgcagcc agggagactc agactagaat gagggtagaa agaactgatg cagagtgggt</p> <p>ttaattctaa gctttttgtt ggtaagtgtt tgttgttgtt aacttattga atttagagt</p> <p>gtattgact gctcatgtga aagccagagc agcaccagtgt tcaaaaatagt gacagagagt</p> <p>tttgaatacc atagttagta tatatgtact cagagtattt ttattaaaga aggcaagag</p> <p>ccggcatag atcttatct catcttact cggttgcaaa atcaatagt aagaaatagc</p> <p>atctaaggga acttttaggt gggaaaaaaa atctagagat ggctctaaat gactgtttcc</p> <p>ttctgaactt ggaggtggac catttcatgc actgcaacat ctccagtcac agtgcggatc</p> <p>tcccgtgaa cgatgactgg tcccaccccg ggatcctcta tgtcatccct gcagtttatg</p> <p>gggttatcat tctgataggc ctcatggca acatcacttt gatcaagatc ttctgtacag</p> <p>tcaagtccat acgtaacgtt ccaaacctgt tcatttccag tctggcttg ggaacctgc</p> <p>tcctccta at aacgtgtgct ccagtgatg cagcaggtta cctggctgac agatggctat</p> <p>ttggcaggat tggctgcaaa ctgatccct ttatacagct tacctctgtt ggggtgtctg</p> <p>tcttcacact cagggcgctc tcggcagaca gatacaaac cattgtcccg ccaatggata</p> <p>tccaggcctc ccattgcccgt atgaagatct gcctcaaac cgcctttatc tggatcatct</p> <p>ccatgtgtct ggcatttcca gaggccgtgt ttttgcact ccacccctc catgaggaaa</p> <p>gcaccaacca gaccttcatt agctgtgccc cataccaca ctctaataag cttcacccca</p> <p>aaatccattc tatggcttcc ttctgtgct tctacgtcat ccactgtcg atcatctctg</p> <p>tttactacta cttcattgct aaaaattctga tccagagtgc ttacaattct cccgtggaag</p> <p>ggaatataca tgtcaagaag cagattgaa cccggaagcg acttgccaag acagtgtctg</p> <p>tgtttgtggg cctgtcgc tctgtctggc tccccaatca tgtcatctac ctgtaccgt</p> <p>cctaccacta ctctgaggtg gacacctcca tgctccactt tgccaccagc atctgtgcc</p>	Homo sapiens

130	1813	Gastrin-Releasing Peptide Receptor	NP_005305.1	gcttcctggc cttcaaccaac tctgcgtga accctttgc ccttacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gctggcctg atcatccgt ctcacagcac tgaagagagt acaacctgca tgacctcct caagagtacc aacctctccg tggccacctt tagctcatc atggaacaac gacgtttttg ctttatgct agacaggaac ccttgcatcc cttgatttgt ctgtgacctc caaagagcct tcagaatgct cctgagtggg gtaggtgggg gtggggaggc ccaaatgatg gatcaccatt atatttgaa agaagc	Homo sapiens
				MAINDCFLN LEVDHFHCHN ISSHADLPV NDDWSHPGIL YVIPAVYGV IILIGNIT P LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ LTSVGSVFT LTALSADRYK AIVRPMDIQA SHALMKICLK AAFIWIISML LAIPEAVFSD LHPFHEESTN QTIFISCAPYP HSNEHPKIH SMASFLVFYV IPLSIISVY YFIAKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVEF GLPAFCWLPN HVIYLYRSYH YSEVDTSMH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KOENTQLLCC QPGLIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV	
131	1814	Cholecystokinin B Receptor	NM_000731	atggagctgc tcaagctgaa ccgagcgtg cagggaaaccg gaccggggcc gggggcttcc A ctgtgcccgc cgggggcgc tctcctcaac agcagcagtg tgggeaacct cagctgcgag ccccctgca ttcgcggagc cgggacacga gaattggagc tggccattag aatcactctt tacgcagtga tcttctctat gagcgttggg ggaatatgc tcatcatcgt ggtcctggga ctgagccgcc gctgaggac tgtcaccaat gccttccctc tctcactggc agtcagcgac ctcctgctgg ctgtggcctg catgcccttc acctcctgc ccaatctcat gggcacattc atctttggca ccgtcatctg caaggcggt tctcactca tgggggtgtc tgtgagtgtg tccacgctaa gctcgtggc catcgcactg gagcgttaca gcgccatctg ccgaccactg caggcacgag tgtggcagac gcgtcccaac gcggctcgcg tgatttagc cactggctg ctgtccggac tactcatggt gccctacccc gtgtacacgt tctgtgaacc agtggggcct cgtgtgctgc agtgcgtgca tgcctggccc agtgcgcggg tccgccagac ctggtccgta ctgtgcttc tgcctctgtt cttcatcccg ggtgtgttta tggccgtggc ctacgggett atctctcgc agctctactt aggccttcgc tttagcggcg acagtgcag cgacagccaa agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaacgg gcgttgccgg cctgagactg gcgcggttgg cgaagacagc gatggctgct acgtgcaact tccacgttcc cggcctgccc tggagctgac ggcgtgacg gctccaggcg cgggatccgg ctcccggccc acccaggcca agctgctggc taagaagcgc gtggtgcgaa tgttgctggt gatcgttgtg cttttttttc tgtgttggt gccagtttat agtgcaaca cgtggcgccg ctttgatggc ccgggtgcac accgagcact ctgggtgct cctatctct tcatcactt gctgagctac gcctggcct gtgtcaacc cctggtctac tgcctcatgc accgtgctt tgcgaaggcc tgccctggaaa ctgtgcctcg ctgctgcccc cggcctccac gactcgccc cagggtctt cccgatgagg acctccccc tccctccatt gcttcgtgt ccaggcttag ctacaccac atcagcacac tgggccctgg ctgaggagta gaggggcccgt gggggttgag gcaggggcaaa tgacatgcac tgaccttcc agacatagaa acaacaacc aacttgaca caggaaacca acacccaaa catggactaa ccccaacgac aggaatagg tgcattacctg acacaagagg aataagaatg gagcagtaca tgggaaagg ggcattgctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgaga gacacagcgt ccttagcagt gaactattc	Homo sapiens

132	1814	Cholecystoki nin B Receptor	NM_000722.1	<p> taccacagtgg gaactctgac aagggtgac ctgcctctca cacacataga ttaatggcac tgattgtttt agagactatg gagcctggca caggactgac tctgggatgc tcctagtgtg acctcacagt gaccttccc aatcagcact gaaataacca tcaggcctaa tctcatacct ctgaccaaca ggctgttctg cactgaaaag ttcttctcat ccttccagt taaggaccgt ggccctgccc tctcctctct tcccaaaactg ttcaagaaat aataaattgt ttggcttctc cctgaaaaaa aaaaaaaa aaaaaaaa aggaattcc MEILKLNRSV QGTGPGGAS LCRPGAPLIN SSSVGNLSCE PPRINGAGTR ELELAIRITL P YAVIFLMSVG GNMLIIVLG LSRLRTVN AFLLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTVICKAV SYLMGVSVS STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQVGP RVLCQVHRWP SARVRQTWSV LLLLLLFFIP GVMMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALLETALT APGPGSGSRP TQAKLLAKKR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRAALSGA PISFIHLSY ASACVNPLVY CFMHRFRQA CLETARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggatctggca gcgcgcgaa gacgagcggg caccggcgcc cgacccgagc gcgcccagag A gacggcgggg agccaagcgg acccccgagc agcgccgagc gggccctgag gctcaaaggg gcagcttcag gggaggacac cccactggcc aggaagcccc aggtctgtct gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc cattgacagc cctgccagat gtggaggca gctagctgcc cagaggcatg cccccctgcc agccacagc accctgtctg ctgttctgctg tgctgtggc ctgccagcca caggtcccc cgcctcaggt gatggacttc ctgtttgaga agtggaagct ctacggtgac cagtgtaacc acaacctgag ctgtctgccc cctcccacgg agctgggtgtg caacagaacc ttgcacaaat attcctgtctg gcggacacc cccgcccaata ccacggccaa catctcctgc cctcgtacc tgccttgcca ccacaaagt caacaccgt tcgtgttcaa gcatgctggg cccgacggtc agtgggtgcg tggacccccg gggcagcctt ggcgtgatgc ctccagtgcc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatgta cagcagcttc cagtgatgt acacagtggg ctacagcctg tccctggggg cctgtctct ccatccacgc gaatctgttt gcgtccttcg tgcgaaagc gctgcactgc acccgcaatg atgggtgct caggacccgc tacagccaga aaattggcga cagctccgtg ctggtcattg ggtcagacct ggtcagtgta tggagcgggtg gctggctgcc gtgtggccgc cgacctcagt gtcagacact ggtcagtgta tggagcgggtg gctggctgcc gtgtggccgc ggtgttcattg caatatggca tctgtggccaa ctactgctgg ctgctgggtgg agggcctgta cctgcacaa cctgctggcc tggccacct cccgagagag agcttcttca gcctctacct gggeatcgcc tggggtgccc ccatgctgtt cgtcgtcccc tgggcagtg tcaagtgtct gttcgagaaac gtcagtgct ggaacagcaa tgaacaacatg ggcttctggt ggatcctgctg gttcccgctc ttcctggcca tctgatcaa ctcttctcat ttgctccga tctgttcagct gctcgtggcc aagctgcggg caccgagat gcaccacaca gactacaaat tccggctggc caagtccacg ctgacctca tccctctgct gggcgtccac gaagtggctt ttgccttcgt gacggacag cagccccagg gacccctgct cctcgccaaag acccttctct cagctcttc cagggcctgc tgggtgctgt cctctactgc ttccctcaaca aggaggtgca gtcggagctg cggcgcgctt ggcacccgtg gcgcctgggc aaagtgtat gggaggagcg gaacaccagc aaccacagg cctcatcttc gcccgccac ggcctccca gcaaggagct </p>	Homo sapiens

Homo
sapiens

P

NP_000151.1

Glucagon
Receptor

1834

134

gcagtttggg aggggtggtg gcagccagga ttcatctgag gagaccccc ttgctggtgg
 cctccctaga ttggtctaga gcccttctg aacctgctg ggacccccagc taggcttggg
 ctctggcacc cagaggcgct gctggacaac ccagaactgg acgccccagc taggctgggg
 gcgggggagc caacagcagc cccacacctac ccccccaccc cagtgtggct gtctgcgaga
 ttgggctctc tctccctgca cctgcttctg cctgctgctg cctgctgctg gaggaagtcga
 ggccgggagc gggtggtgct cctggaactg cctggaactg cctggaactg tgcggcagc
 tcccatgtgc atggaatgt cctccacaac cctccacaac aagtggtcac cgtg
 MPPCQQRPL LLILLACQ PQVPSAQVMD FLFEKWKLYG DOCHNLSLL PPTELVCNR
 TFDKSCWPD TPANTANIS CPWYLPWHK VQHRFEKRC GPDQWVRGP RGQWRDASQ
 QMDGEEIEV QKEVAKYSS FQVMYTVGYS LSLGALLAL ALGLSKLH CTRNAIHANL
 FASFVKASS VIVIDGLRT RYSQKIGDDL SVSTWLSGGA VAGCRVAADF MQYGIVANYC
 WLLVEGLYLH NLLGLATLPE RSFFSLYLG I GWGAPMLFV PMAVVKCLFE NVQCWTSNDN
 MGFVWILRFP VFLAILINF IFVRIVQLLV AKLRARQMH TDYKFRLLAKS TLTLLPLLV
 HEVFAFVTD EHAQGLRSA KLFDFLFS FQGLLVAVLY CFLNKEVQSE LRRRWHRWRL
 KVLWEERNTHNRSSSPG HGPPSKELQF GRGGGSDSS AETPLAGGLP RLAESEPF
 ttggttgctg gtccacttac aacactttt catatttcta tgcctttcca atggttatcc A
 tggtttgtc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa
 agccttttga gttctcaga aaataaatt atcttattca agactgattg cttataagga
 acttattata gctaataatg taggcacaaat ttttttttga atctcctag atgagtcaga
 acttagtttt gatgtaggta aaatttttat ggtcacaaat ctgaggtgtg agaaaatctc
 tttccttgat actctatata aatagaggat aaaaatttt caagctctga agtagtgaga
 gaagctggta attctggaca tatagtga gtaaaaagg agctcaggta caggactggg
 ctaagctgct caagattcag gagacagcca gtacacagag agctgaggga aataatcacg
 atatatctaa aacacttctc taaccttctg tggttaacaa gctcctaaag gggctggatg
 atgttggtgt cactttttat caccagcaaa ggttaagata atgtatatag taaatatta
 gtaaccattt attaaataaa taaatattta agacagata acaagata ataaatgaac
 caataagaat gcaccatcta agtcaaaaata gccactttta tcttcaacat tgcactgct
 ttggctgctg cagaagcaaa cttgttgga ttagacaaat caagctggtg atttaataa
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 aagaagcaac acagaaaaag tctctaagtg gtcccaattt gaaatgata gataacctat
 aaaagaacat attcatatta tactaacata aacacataata atgcactta cagcagttac
 acagtattct cttcaataac tagtttctt gtgcatatgt gtgtaataac agcaactaca
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 gtaattcct taagacaatg gattttaatt ggtctgtgtg ttttcatatt tcttcattat
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NM_000406

Gonadotropin
-Releasing
Hormone
Receptor

1925

135

Homo
sapiens

A

136	1925	Gonadotropin NP_000397.1 -Releasing Hormone Receptor	aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg acaaaatttg acatacgtct aaactgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggcttgaa gctctgctct gggaaaatat ggcaaacagt gcctctcctg aacagataca aatcactgt tcagccatca acaacagcat cccatgagt cagggaacc tccccactg acccttgctt ggaagatcc gagtgcggt tactttcttc cttttctgc tcttcgcac ctttaagtct tctttcttg tgaaacttca gaagtggaca cagaagaaag agaaaggaa aagctctca agaataaagc tgctcttaaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aagttctca gttatctaaa gcttttcttc atgtatgcc cagccttcat gatggtggtg atcagcctgg accgctccct ggctatcacg agcccctag ctttgaaaag caacagcaaa gtccgacagt ccatggttg cctggcctgg atcctcagta gtgtctttgc aggccacag tatcacatc tcaggatgat tcatctagca gacagctctg gacagacaaa agtttctct caatgtgtaa cacactgcag tttttcaaa tgggtgcac agcatcttta taactttttc accctcagct gcctcttcat catcctctt ttcactatgc gaccccccag aactacaact' gaatcagtc aagaacaata tgacacgggt ccttcatcag gaccccccag actctaaaaa tgacggttgc atttgccaat tcatttactg taccagagc acggctgaag gtcctagaaa ttggtgattg gtttgatcct gaaatgtaa tctgctggac tccctactat gtcctagaaa ttggtgattg gtttgatcct gaaatgtaa acaggtgtgc agaccagta aatcacttct tctttctctt tgccttttta aaccatgct ttgatccact tatctatgga tattttctct tgtga	Homo sapiens
137	1945	Opsin, green-sensitive	MANASPEQN QNHCSAINNS IPLMQNLPT TLISGKIRVT VTFFLLLSA TFNASFLKL P QKWTQKKEG KKLRSMLLL KHLTLANLLE TLIVMLDGM WNITVQWYAG ELLCKVLSYL KLFSYAPAF MMVISLDRS LAITRPLALK SNSKVGQSMV GLAWILSSVF AGPQLYIFRM IHLADSSGT KVFSQCETHC SFSQWQHQA YNFTFSCLF IIPLFIMLIC NAKIIFLTR VLHQPHELQ LNQSKNNIPR ARKLTLMQTV AFATSFVVCW TPYYVLGIWY WFDPEMLNRL SDPVNHFFFL FAFLNPCFDP LIYGYFSL atggcccagc agtgagcct ccaaaggctc gcaggccgccc atccgcagga cagctatgag A gacagcacc agtcagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgctcccaga tgggtgtacc acctcaccag tgtctggatg atctttgtg tcattgcac cgttttcaca aatgggcttg tctggcgccg caccatgaag ttcaagaagc tgcgccacc gctgaactgg atctggtga acctggcggt cgctgacctg gcagagaccg tcctgcccag cactatcagc gtttgaacc aggtctatgg ctactctgtg ctgggccacc ctatgtgtgt cctggagggc tacacgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat tctctgggag agatggatgg tggcttgcaa gccctttggc aatgtgagat ttgatgcaa gctggccatc gtgggcatgg ccttctctg gatctgggt gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccc cggcctgaag acttcacg cccagacgt gttcagcgc agctcgtacc cgggggtgca gttctacatg attgtctca tggccactg ctgcatcacc cactcagca tcatgtgct ctgtacctc caagtgtggc tggccatccg agcgttgcca aagcagcaga agagctctga atccacccag aaggcagaga aggaagtgc gcgcatggtg tgggtatgg tccctggcatt ctgcttctgc tggggaccat acgcttctt cgcgtgctt accctgggcta cccctccac	Homo sapiens

151/448

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	ggtgcccttt tccacagcga cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg cgcctccca tttcgccacc atgaccaact tcaagctggct gttggcagaa gccgtctacc tgaactgcct cctggcctcc accctcccca gctcaaggag agccttctgg tggctggttc tgcgtggctg ggggctgccc gtgctcttca ctggcacgtg ggtgagctgc aaactggcct tgcaggacat cgcgtgctgg gacctggaag acactccccc ctactggtgg atcatcaaa ggcacattgt cctctcggtc ggggtgaact tgggcttttt tctcaatat atccgcatcc tggtagagaa actggagcca gctcaggga gccccatcac ccagtctcag tattggcgtc tctcaagtc gacacttttc ctgatccccc tcttggaa tcaactacac atcttcaact tctggccaga caatgctggc ctgggcaccc gctcccccct ggagctggga ctgggttctt tccagggctt cattgttgcc atctctact gcttctcaa caagaggtg aggactgaga tctcagggaa gtggcatggc catgaccctg agcttctgcc agcctggagg accctgcta agtgaccac gccttccgc tcggcgga aggtgctgac atctatgtc taggctgctt catcagcca ctggagtcca cacttgaatt tgggcagcta ccacgggtct gccatgctct ggaggagcaa gggggccaca tccccacccc agctgttacc cagccccggg caggtgcagc cttctctccc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc tacctctgac ttctgtggtc cctctgtgct tgcctctcat cattctctt actggggcct ggggctctag cccaagctc agaggagcca ataaacctgt aaatgaataa aaaaaa GLICWPTAGS GEWTLPCPD FFSHFSESG AVKRDCTITG WSEFPFYPV ACVPLELLA PEESYFSTVK IITYVGHIS IVALFVAITI LVALRRLHCP RNYVHTQLFT TFIKAGRVE LKDAALFHS DTDHCSFSTV LCKVSAASH FATMNFNSWL LAEAVYNCL LASTSPSSRR AFWLVLAGW GLPVLFTGTW VSKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGLE LNIRILVRK LEPAQGS LHT QSQYWRLSKS TLFLIPLEGI HYIIFNLPD NAGLGIRLPL ELGLGSFQGF IVALLYCFIN QEVRTSIRK WHGHDPELLP AWRTRAKWTT PPSRAAKVLT SMC	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	caggagagaca tacaggattt aagaagccca tcaatggagaa gaccttcaat tacagagata aaaagtthttt cttgtggaac aagttaacac tagatggcag ataacagact gaggagtga ctgcttctga ctcgattaaa aaggagtgga gccataactg gcggctgctc ttctgccaat gagcctccc aattcctct cctctctaga agacaagatg tgtgaggga acaagaccac tatggccagc cccagctga tgcctctggt tgcctctgctg agcactatct gcttggctac agttagggctc aacctgctgg tctgtatgc cgtacggagt gacgggaagc tccacactgt ggggaacctg tacatgctca gcctctcgtt ggaggacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgcctatgct caagtgggtca ctgggcccgtc ctctctgctt cttttggctt tccatggact atgtggccag cacagcgtcc atttctcagt tcttctcct gtgcaattgat cgtacacctt ctgtccagca gccctcagg taccttaagt atcgtaccaa gaccagacc tcggccacca ttctgggggc ctggtttctc tcttttctgt gggttattcc cattctaggc tggaaatcact tcatgcagca gacctcgttg cgccgagagg acaagtgtga gacagacttc tatgatgtca cctgggtcaa ggtcatgact gccatcata acttctacct gcccaccttg ctcatgctct ggttctatgc aagatctac aaggccgtac gacaacactg ccagcaccgg gagctcatca ataggctcct ccttctcttc tcagaaatta agctgagggc agagaacccc aaggggggtg ccaagaaacc aggggaaggag tctccctggg aggttctgaa	Homo sapiens

aaggaaagcca aaagatgctg gtggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tcccagttg tcttcagcca agaggatgat agagaagtag acaaaactcta
ctgctttcca cttgatattg tgcacatgca ggctcgga gaggggagta gcagggacta
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tggggccagc gagatatcag aggatcagat agccaatcct tctctcgaac
ggactcagat accaccacag agacagacc aggcaaggc aaattgagga gtgggtctaa
cacaggcctg gattacatca agtttacttg gaagaggctc cgctcgcat caagacagta
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tctggaatcc aaaccacagt cttaggggct tggtagtttg gaaagtctct aggcaccata
gaagaacagc agatggcgtt gatcagcaga gatatgaaac tttagggagg aagcagaatc
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acaatgtgcc ctcttaagtg tgcacagata cacatacacg gtattcccaa gagtgggtgc
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gaaggggacg ctttgaagga accaagtga tttttatctg tgagtctctg tgtgtttgct
aaaagtcat tgtaatctt catagccata cctggtaagc aaaaactagt aaagacatag
gaacatgtag ttttacttgg tgtttatgtt gcaactgtgt tgtgatttat attttaaagc
ttggtgctaa accacaatat gtatagcaca tggagtgctt gtacaagctg atgttttcta
ttttgtgttc ctctttgcat gatctgtcaa agtgagatat ttttacctgc ctaaaaatag

144	2120	Histamine H1 NP_000852.1 Receptor	atgttttaaa gcatactcta tgtgatttat ttattttctac ctttctgagt ctcttggagt aagaagatgt tttgaaatgt accatcaaat gtttaacagag tttgatatgg gctttctctt tggtttctca tcacatttgt aaatgtcttt tcaaaaggat ttactttttt taaaaagctt cattctcact ctgcttttga tcccccaaac ttcttgttca aaacgggggg agtttaggag actttaatcc cggtttcaga agctgcagct ggtctgttcc caggtcagaa accattgttc agaagacctc cctgtgagag agttgtctct cagggtccct caggaccaa gaacactcga aaagagcact tcacacagac aagtggctaa gtgtccatta ttaccttga acaatcaagg caactagtgg agagaactga ttgtgagctc MSLPNSSCLL EDKMCENKT TMASQMLPL VVVLSTICLV TVGLNLLVLY AVRSEKLTHT P VGNLYIVSLV VADLIVGAVV MPNNILYLLM SKWSLGRPLC LFWLSMDYVA STASIFSIFI LCIDRYRSVQ QPLRYLYRT KTRASATILG AWFLSFLWVI PILGWNHFMQ QTSVRREDKC ETDFYDVTFE KVMTALINFY LPTLLMLWFY AKIYKAVRQH CQHRELINRS LPSFSEIKLR PENPKGDAKK PGKESPWEVL KRPKPDAGG SVLKSPSQTP KEMKSPVVFES QEDDREVDKL YCFPLDIVHM QAAAEQSSRD YVAVNRSHGQ LKTDQQLNT HGASEISEDQ MLGDSQSFSR TDSDTTETA PGKGLRSQS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQKQLGFI MAAFILCWIP YFIFFMVIAF CKNCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTFK RILHRS	Homo sapiens
145	2121	Histamine H2 NM_022304 Receptor	ctctgcccct ccactgactc cagagagga gatccccagt acttgactcc atcacgcaga A tgggagcagg caccagctat ggagagggat acagctgcgt ctccacatga cccatccctg atgacaccaa agccaccgcc agacagtgc tcggaattcta tgcaaaacct gggaagcgga gacctacccc agccccggga ggaagctagc ttctcagggg accgtctgag gactggagtt tgatccatga acctggcttc gaggccttgc ttctctctct tcttcattca tattcattcc caacacctta gaaggtgttg cttaatttat ttctagaaaa gcagcccaga gtcagtcatt gaagccttcc ccacccccctg gccaaaaaaa aaaaactggac acatttttga tctgttggga gcttggagtc cagtgttgg ccatagttgtc acattgggag cagagaagaa gcaaccaggg gccctgatca ggaggactgag ccgtagagtc ccaggatggc acccaatggc acagcctctt ccttttgctt ggactctacc gcattgcaaga tcaccatcac cgtggtcctt gcgtctctca tctctcatcacc cgttgcctggc aatgtgtgtcg tctgtctggc cgtgggcttg aacgcgggc tccgcaacct gaccaattgt ttcactgtgt ccttggctat cactgacctg ctcctcggcc tctgtgtgct gcccttctct gccatctacc agctgtcctg caagtggagc tttggcaagg tcttctgcaa tatctacacc agcctggatg tgatgctctg cacagcctcc attcttaacc tcttcatgat cagcctcgac cgttactgag ctgtcatgga cccactgcgg tacctgtgct tggtcacccc agtctgggtc gccatctctc tggctttaat ttgggtcatc tccattaccc tgtcctttct gtctatccac ctggggttga acagcagaa cgagaccagc aagggaatc ataccacct taagtgaata gtccaggtca atgaagtgt cggtctggtg gatgggctgg tcaccttcta cctcccgtca ctgactatgt gcattaccta ctaccgcac ttcaaggtcg cccgggatca ggccaagagg atcaatcaca ttactcctg gaaggcagcc accatcaggg agcacaagc cacagtga caatggcgccg tcatgggggc cttcatcatc tgctgggttc cctacttcac cgtcttctg taccgtgggc tgagagggga tgatgccatc aatgaggtgt tagaagccat cgtctctgtg cgtgggtatg ccaactcagc cctgaacccc atcctgtatg ctgcgctgaa cagagacttc cgcacggggt accaacagct cttctgctgc	Homo sapiens

146	2121	Histamine H2 NP_071640.1 Receptor	aggctggcca accgaactc ccacaaact tctctgaggt ccaacgcctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaaac cctgaagct ctaggtgtgg agtgggacag aagtcacggc cccccaggga gccacagaca ggtaaatagcc ctagccattg gtgcacagga tgggggcaat ggaggggat gctactgat ggaatgatta agggagctgc tgttaggtg gtgtgtgttt atgttctag aactcttcac ggcactttt taaacacct cttgcttaac cctcccaacg gcccccaag gtagaactta gctccctttt aaaaggagca cattaaaatt ctcagaggac ttggcaagg cgcacagct ggggcat	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPR1)	MAPNGTASSE CLDSACKIT ITVLAVLIL ITVAGNVAVC LAVGNRRRLR NLNCFIVSL P AITDLLLGLL VLPFAIYQL SKWSEFGKVF CNITYSLDVM LCTASILNLF MISLDRYCAV MDPLRYPVLV TPVRVAISLV LIWVISITLS FLSIHGWS RNETSNGNHT TSKCKVQVNE VYGLVDGLVT FYLPILIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTIAAVM GAFIICWFPY FTAFFVYRGLR GDDAINEVLE AIVLWLGYN SALNPILYAA LNRDERTGYQ QLFCCRANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KLQVMSGTEV TAPQGATDR tgacgactc accatggaat ccccgattca gatctccgc ggggagcctg gccctacctg A cgccccagc gctgctcgc cccccaaac cagcgcctg tttcccgctt gggccgagcc cgacagcaac ggcagcgccg gctcgagga cgcgcagctg gagccgcgc acatctccc ggccatccc gtcacatca cggcggtcta ctcgtagtg ttcgctgtg gcttgggtgg caactcgctg gtcagtgtcg tgatcatccg atacacaaag atgaagacag caaccaacat ttacatatatt aacctggctt tggcagatgc tttagttact acaacctgc cctttcagag tacggtctac ttgatgaatt cctggcctt tggggatgtg ctgtgcaaga tagtaatttc cattgattac tacaacatgt tcaccagcat cttaccctt accatgatga gcgtggaccg ctacattgcc gtgtgccacc ccgtgaaggc ttggactctt cgcacacct tgaaggcaaa gatcatcaat atctgcatc ggctgctgc gtcactgtt ggcactctg caatagtcct tggaggcacc aaagtccagg tcctggtggg acctctcat gaagatctgc gtctctctt tgatgactac tcctggtggg acctctcat gaagatctgc gtctctctt ttgccttctg gatccctgtc ctcacatca tcgtctgcta caccctgatg atcctgctc tcaagagcgt ccggtcctt tctggctccc gagagaaaga tgcgaacctg cgtaggatca ccagactggt cctggtgtg gtggcggtt tcgtcgtctg ctggactccc attcacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgcttaggc tataccaaca gtacccctgaa tccattctc tacgcttctc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccgtcttac ctgagggaca tcgatgggat gaataaacca gtatgactag tcgtggagat gtctctgtag ag MESPIQIFRG EPGPTCAPSA CLPPNSSAWF PGWAEPSDNG SAGSEDAQLE PAHISPAIPV P IITAVYSVVF VVGLVGNLSV MFVIIRYTKM KTATNIYIFN LALADALVTT TMPFQSTVYL MNSWPFGLV CKIVISIDY NMFTSIFLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLSSSVG ISAILVGGTK VREDVDVIEC SLQFPDDDS WWDLEMKICV FIFAFVIPVL IIIVCYTIMI IRLKSVRLLS GSREKDRNLR RITRLVLVVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPR1)	NP_000903.1 ggcgcccat gaagcagcgg	Homo sapiens
149	2964	Luteinizing	NM_000233 ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgct gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
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ataacagatc agaaatttaa aataaggggc tttttctca ggtagtttga aaaaacact

2964 Luteinizing NP_000224.1 Homo sapiens
Hormone/Chor
iogonadotrop
in Receptor

ctagagatgc actgttcaat tcggtacgca ctaggccacat gtgggctaaa taaaattaaa
taaaatgaga aatgtagttt ctacgttgca ctacgtttca agttctcaat ggctacgtca
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gagttagaat tactctgaag ttatgaaca tataatgaaa acaatttttc cggcc

P

Homo
sapiens

150

2976 Lysophosphat NM_001401 Homo sapiens
idic Acid
Receptor
Edg2

A

Homo
sapiens

151

acggcgcgct gggctcacac tgtcccgccg cggacgggct ttgtggttgg gggcgcgctg
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ttggccaacc tatgtgtcat ggtggcaatc tatgtcaacc gccgttcca ttttcttatt
tattacctaa tggctaattc ggtgctgca gacttctttg ctgggttggc ctacttctat
ctcatgttca acacaggacc caatactcgg agactgactg ttagcacatg gtcctgcgt
cagggcctca ttgacaccag cctgacggca tctgtggcca acttactggc tattgcaatc
gagaggcaca ttacggtttt ccgcatgcag ctccacacac ggatgagcaa ccggcgggta
gtgtgtgttca ttgtgttcat ctggactatg gcaatcggtta tgggtgtat acccagtgtg
ggctggaact gtatctgtga tattgaaaat tgttccaaca tggcacccct ctacagtga
tcttacttag tcttctgggc cattttcaac ttggtgacct ttgtggtaat ggtggttctc
tatgtcaca tctttggcta tgttcggcag aggaactatga gaatgctcog gcatagttct
ggaccccgcc ggaatcgga taccatgatg agtcttctga agactgtggt cattgtgctt
ggggccttta tcatctgctg gactcctgga ttggttttgg tacttctaga cgtgtgctgt
ccacagtgcg acgtgctggc ctatgagaaa ttcttctctc tccttgctga attcaactct

152	2976	Lysophosphat NP_001392.1 idic Acid Receptor Edg2	<p>gcatgaacc ccataattta ctctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accggcccca cagaaggctc agaccgctcg gcttcctccc tcaaccacac catcttggtt ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccaggcaa ggtggggtgt gagagggag aagagtcaac tcatgtactt aaacactaac caatgacagt attgttctct ggaccgccca gaacttgata tatattgaaa attagcttat gtgacaaccc tcactctgat cccatccct tctgaaaagta ggaagttgga gctcttgcaa tggaattcaa gaacagactc tggagtgctc attagacta cactaaactag acttttaaaa gattttgtgt ggtttgtgtc aagtcagaat aaattctggc tagttgaatc cacaacttca ttatatata ggttccctt ttttattttt aaagatacag ttacacttaa taaacacgtt tatgctatc agcatgtttg tgatggatga gactatggac tgctttttaa ctaccataat tccattttt ccttacata ggaacactgt aagttggaat tatctttgtt ttagaaagca tgcattgaat gtatgtatgc agtatgcctt acttaaaaag attaaaagga tactaatgtt aaatcttcta ggaatatgaa cctagacttc aaagccagta ttgttttagg tcatgaagca aacaatgctc taatcacaat attaaactgt taattaaaat gttgtaacaa gtataaaaca ggaatgtaa gtttattacc aaagtatat gtattccaaa aaagtcatag aagatgaagc actataat tgttcccata tattaaaat acccaagtac attctaatta ccagtatatc agaggaaaat ttctgtatgc ttgttaaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt gtatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttggccacatt ttcttatggc attaaaaatt ttacaaaaac ataattttaa tggctatat atattccatt taatggatgc aactcagttt atttaaacat tcccagttg ttaactattt aggtgtttc taattttcat tattataag ttgcagaaat ttggtgt</p> <p>MAAISTSIPV ISQQTAMN EQCFYNESI AFFYNRSGKH LATEWNTVSK LVMGLGITVC P IFIMLANLLV MVAIYVNRFF HFPIYILMAN LAAADFFAGL AYFYLMENVTG PNTRRLTVST WLLRQGLIDT SLTASVANLL AIAIERHIV FRMLHTRMS NRRVVVVIV IWTMAIVMGA IPSVGNWCIC DIENCSNMAP LYSDSYLVFW AIFNLVTFW MVLYAHIFG YVRQRTMRMS RHSSGPRNR DTMSLLKTV VIVLGAFIIC WTPGLVLLL DVCCPQCDVL AYKFFLLLA EFNSAMNP II YSYRDKEMSA TFRQILCCQR SENPTGPTES SDRSASSLNH TILAGVHSND HSVV</p>	Homo sapiens
153	3038	G Protein- Coupled Receptor MRG	<p>ttttgtattt gttgcacccct aagtcgtgtc atttcttctt cctcagctga catttgagc A atagcagtcg atgatgccc aacagacact gcctgagact cagcccccgt gagaaacgca gatttcccta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgcaa ctgctgtgaa atgctgacct tggaaatctc agtgcctcct tgtacctgtc tgagcccagg gaaatgccat actgtggcac tgcgtcatcc tgcattggcta cccaaggatg ccaggactg gtttgaaaga gatgagacat ggccaggtgc tgggtcacg cttgtaatcc agcactttgg gaggtcaagg cagtggatca caaggtcaga ttgagacca gccaggccaa tatggtgaaa acccatctc tactaaaaat acaaaaaatt agcggggcaa tgggtgtggg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctgggaaggt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtggac tccaactcaa</p>	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaa aaaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtccc aacaacaaga tattgggtct atgtgggtag gcctggggca tcctgtacaa caggagatgt gttaggggag ggagaacaga tcacaaattc atggagagct attgagagag cagatactcc catccactct gatattgagt taatgttcag cbgttcttaa aaagcacacc caacaatggg tgttctattc cagctcctga aaatgtagag gcaagggggtc tgaggccaga ggacaccact agatggacca ctgctcctga ctgtgatgtt gtggcccatc caggtccag caccocatgg tctgggggaa aatttgctgg ttcagccaga gggctggatg gacagtgtt gctgagtcac agatatctct ctcatgtagc ctttgtctcc acagtgtga ccaggaggca cagaacccaa acctgtatc tcagctctgt ggctctttc ttcaaaatga gacgaatga accatacata tgcagatgag catggcagtg ggacagcagg cctgcccctt gaatatcatt gcccacaagg ctgtgctggt ctccctctgt ggggtcttat tgaatggcac tgtcttctgg ctgcttctgt gtggggccac gaatccctac atggtataca tctccacctt ggtcgtgctt gacgtgatct atctttgctg ctggcagtg gggttcttac agtgactct gctaaactat catggagtcg tgttttttat cctgatttc ctggccatat tgtctccctt ctcccttgag gtgtctctct gtctcctggt ggccatcagc acagagcgtt gtgtgtgtgt cctcttccc atctggtaca gatgccaccg ccaaaatac acatctaatt ttgtctgcac cctcatctgg ggcctgcctt ttgcatcaa catagtaaaa tcaactttcc taacttactg gaaacatga aagccatgtg tcataattctt aaagctttct gggctcttcc atgctatcct ttcacttgtg atgtgtgtgt cgagtctgac tctactcatt agattcctgt gctgtcccca cagcaaaaag gccaccaggg tctatgcggt ggtgcagatc tgggccccca tgttctact ctggccccta cccctgagcg tggcaccctt cataacagat ttcaaaatgt ttgtcaccac ctcttatta atttcttgt tctcattat aaacagcagc gccaacctta tcatttattt ctttgtgggg agcctcagaa agaaaaggct gaaggaaatc ctcagagtga ttctccaaag ggcgttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cacttactc agcatgtgga gaaccttctt ccaggggagc acagggtcga tgtggaaaca taatttccca catctgagct ggggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatcaaatc aatgctttat tctaatacag ttcagctttc atggactttc aaacaaaccc cttgctgttt gtggttgga gagacattaa cttccttctt aggcagtaag cccagtgtga atgtgtcca gtccaacga tgagggggaat gggaccagt gagactttcc tggtaacctgt ggaatccaaa taaagacct acaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> atgagcatcc aaaaagaagta tctggaggga gatattgtct tctctgtgag cagcagcagc A ttctacgga cctgctgga gcccagctc ggtacagccc tcttgacagc aatgaatgct tctgtgtgcc tgcctctctgt tcagccaaca ctgctaagtg gctcgaggca cctccaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	<p>cctttcttca gcaaccagag cagcagcgcc ttctgtgagc aggtcttcat caagcccagag atthtccctgt ctctgggcat cgtcagctgt ctggaataca tcttggttat cctggccgtg gtcaggaaag gcaacctgca ctccccgat tacttcttct tctgcagcct ggcggtggcc gacatgctgg taagtgtgtc caatgccctg gagacatca tgcacgcat cgtccacagc gactacctga ccttcgagga ccagtttctc cagcacatgg acaacatctt cgactccatg atctgcatct ccttggtggc ctccatctgc aacctcctgg ccactgacct cgacaggtag gtcaccatct tttacgcgct ccgtaccac agcatcatga ccgtgaggaa ggccctcacc ttgatcgtgg ccactgggt ctgctgcggc gtctgtggcg tgggtttcat cgtctactcg gagagcaaaa tggatattgt gtgctctatc accatgttct tggccatgat gctcctcatg ggcaccctct acgtgcacat gttcctcttt gcgcggtgc acgtcaagcg catagcagca ctgccacctg ccgacgggtt ggcaccacag caacactcat gcatgaagg ggacgtcacc atcaccattc tcttggtggc gttcatcttc tgcgtggccc cttcttctt ccacctggtc ctcatcatca cctgccccac caaccctac tgcactgtct acactgccc ttcaaacacc tacctggctc tcatcatgtg caactccgtc atcgaccac tcatctacgc ttcccgagc ctggaattgc gcaacacctt tagggagatt ctctgtggct gcaacggcat gaacttggga tag</p>	<p>MSIQKKYLEG DFVFPVSSSS FLRTLLEPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSA FCEQVFKEP IFLSLGIVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIAVDYR VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGWVFIVS ESKMVIVCLI TMFFAMMLLM GTLVHMFLF ARLHVKRIAA LPPADGVAPQ QHSCMKGAVT ITILGVFIF CWAPFFHLV LIITCTPNPY CICYTAHENT YLVLMCNVS IDPLIYAFRS LELRNTFREI LCGCNGMNLG</p>	Homo sapiens
157	3058	Melanocortin NM_005912 4 Receptor (MC4R)	<p>atggatgaact ccaccacacg tgggatgcac actctctgc acccttgaa ccgcagcagt A tacagactgc acagcaatgc cagtgcagtc cttggaanaag gctactctga tggagggtgc tacgagcaac tttttgtctc tctgaggtg ttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac ttttcatct gcagcttggc tgtgctgat atgctggtga gcgtttcaaa tggatcagaa accattatca tcaccctatt aaacagtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agtctcttg tgcacccat ttgcagcctg ctttcaatg cagtggacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgtga tcatctgct catcaccatg ttcttcacca tgcctgctct catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggattgc tgtctctccc ggcaactggtg ccatecgcca aggtgccaat atgaaggag cgattacctt gaccatcttg atggcgctct ttgttgtctg ctgggccccca ttcttctctc acttaaatatt ctacatctct tgcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcactg atcatgtgta attcaatcat cgatcctctg atttatgcac tccggagtga agaaactgagg aaaaacttca aagagatcat ctgttgctat ccccggggag gcccttgtga ctgtctagc agatattaa</p>	<p>YEQLFVSPEV FVTGLVISLL P LGKGYSDGGC TIIITLINST DTDAQSFTVN</p>	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor	<p>MVNSTRGMH TSLHLNRRSS YRLHSNASES ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE</p>	<p>YEQLFVSPEV FVTGLVISLL P LGKGYSDGGC TIIITLINST DTDAQSFTVN</p>	Homo sapiens

159	3059	(MC4R)	Melanocortin NM_005913 5 Receptor (MC5R)	IDNVDSVIC SLLASICS LSIADVRYFT IFYALQYHNI MTVKRVGIII SCIIWAAC TVS GILFIIYSDS SAVIICLITM FFTMLALMAS LYVHMF LMAR LHKRIAVLP GTGAIRQGAN MKGAITLTIL IGVFVVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGLCDLSS RY atgaattcct cattcacct gcatttcctg gatctcaacc tgaatgccac agagggcaac A ctttcaggac caatgtcaa aacaagtct tcaccatgtg aagacatggg cattgctgtg gaggtgtttc tcaactggg tgatcatcagc ctcttgagga acatcttggt cataggggccc atagtgaaga acaaaaacct gcactcccc atgtacttct tcgtgtgcag cctggcagtg gaggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgcttt gtgcgccaca ttgacaatgt gtttgactcc atgatctgca ttccgtggt ggcattccatg tgcagcttac tggccattgc agtggatagg tacgtcacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcgctcaggg gccatcatcg cgggcatctg ggtttctgc acgggctgcg gcattgtctt cctcctgtac tcagaatcca cctacgtcat cctgtgcctc atctccatgt tcttcgtat gctgttctc ctggtgtctc tgtacataca catgttctc ctggcgcgga ctacgtcaa gcggatcgcg gctctgccc gggccagctc tgcggcgag aggacagca tgcaggcgcg ggtcacccgc accatgctgc tgggctgtt tacctgtgc tgggccccgt tcttcttca tctcacttta atgcttctt gccctcagaa cctctactgc tctcgttca tgtctcactt caatatgtac ctcatactca tcatgtgtaa ttccgtgatg gacctctca tatatgcctt ccgcagccaa gagatgcgga agacctttaa ggagattatt tgctgcctg gtttcaggat cgctgcagc tttccagaa gggattaa	Homo sapiens
				160	3059
161	3061	Melanocortin NM_002386 1 Receptor (MC1R)	ggagagggtg tgagggcaga tctgggggtg ccagatgga aggagcgag catgggggac A acccaaggcc cctgggcagc accatgaact aagcaggaca cctggagggg aagaactgtg ggacactgga ggcctccaac gactccttc tgcttctcg acaggactat ggctgtgcag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac aggagccccg tgctggagg tgtccatctc tgacgggctc ttctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtgtggc caccatcgcc aagaaccgga acctgcactc acctgtac tgcctcatc gctcctggc ctgtcggac ctgtggtga gcgggagcaa cgtgctggag acggccgtca tctcctgct ggagggcgg gcactggtg cccgggctgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgcagctcca tgcgtgccag cctctgctc ctgggcgcca tcgcctgga ccgctacatc tccatcttct acgcactgc ctaccacagc atcgtgacct tgcgcggggc gcggcaagcc gttcgggcca tctgggtggc cagtgtcgtc tcttcacgc tcttcacgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctcgtg ctatgctggt gctcatggcc gtgctgtacg tccacatgct ggccccgggc tgccagcacg ccaggggcat cgccccgctc	Homo sapiens	

162	3061	Melanocortin 1 Receptor (MC1R)	NP_002377.2	MAVQGSQRRL	LGSLNSTPTA	IPQLGLAANQ	TGARCLEVSI	SDGLFLSLGL	VSLVENALVV	P	Homo sapiens
				ATIAKNRN	LMH	SPMYCFICCL	ALSDLLVSGS	NVLETAVILL	LEAGALVARA	AVLQQLDNVI	
				DVITCSSMLS	SLCFLGAIAV	DRYISIFYAL	RYHSIVTLPR	ARQAVAAIIV	ASVVFSTLFI		
				AYYDHVAVLL	CLVVFLLAML	VLMVLYVHM	LARACQHAQ	IARLHKRQRP	VHQGFGLKGA		
				VTLLILLGIF	FLCWGPFLLH	LTLIVLCPEH	PTCGCIFKNE	NFLALIIEN	AIIDPLIYAF		
				HSQELRRTLK	EVLTCWS						
163	3079	Melatonin Receptor type 1a	NM_005958	CGGCGGAGC	CTTAACAAGT	GGTCGGGCGG	GGGACGAGG	CGGGCGATGG	CCCTGCGGCC	A	Homo sapiens
				GGGACGCGAA	CAGGAGCCAT	CGAGGGCAAC	GGCAGCGCG	TGCCAACGC	CTCCAGCCC		
				GTGTCGCGG	GGGACGCGC	GGGCGCTCG	TGGTGCGCT	CGCGCTAGC	CTGCGTCTC		
				ATCTCACCA	TCGTGTTGGA	CATCTGGGC	AACCTCTGG	TCACTCTGC	GGTGTATCGG		
				AACAAGAAGC	TCAGGAACGC	AGGAAACATC	TTTGTGGTGA	GCTTAGCGGT	GGCAGACCTG		
				GTGGTGGCCA	TTTATCCGTA	CCGTTGGTG	CTGATGTGCA	TATTTAAACA	CGGGTGGGAC		
				CTGGGCTATC	TGCAGTGCCT	AGTCAGTGGG	TTCTGATGG	GCTGAGCGT	CATCGGCTCC		
				ATATTCAACA	TCACCGGCAT	CGCCATCAAC	CGCTACTGCT	ACATCTGCCA	CAGTCTCAAG		
				TACGACAAAC	TGTACAGCAG	CAAGAACTCC	CTCTGCTACG	TGCTCTCAT	ATGGCTCCTG		
				ACGCTGGCGG	CCGTCTCTGC	CAACCTCCGT	GCAGGGACTC	TCCAGTACGA	CCCGAGGATC		
				TACTCGTGCA	CCTTCGCCCA	GTCTCGTCAGC	TCGCGCTACA	CCATCGCCGT	GGTGGTTTTC		
				CACCTCTCTG	TCCCATGAT	CATAGTCATC	TTCTGTTACC	TGAGAAATATG	GATCCTGGTT		
				CTCCAGGTCA	GACAGAGGGT	GAAACCTGAC	CGCAAAACCCA	AACTGAAACC	ACAGGACITC		
				AGGAATTTTG	TCACCATGTT	TGTGGTTTTT	GTCTCTTTTG	CCATTTGCTG	GGCTCCTCTG		
				AACCTCATTG	GCCTGGCCGT	GGCTCTGAC	CCCGCCAGCA	TGGTGCCTAG	GATCCACAGG		
				TGCTGTGTTG	TGGCCAGTTA	CTACATGGCG	TATTTCAACA	GTGCTCTCAA	TGCCATTATA		
				TACGGGCTAC	TGAACCAAAA	TTTCAGGAAG	GAATACAGGA	GAATTATAGT	CTCGCTCTGT		
				ACAGCCAGGG	TGTTCTTTGT	GGACAGCTCT	AACGACGTGG	CCGATAGGGT	TAAATGGGAA		
				CCGTCTCCAC	TGATGACCAA	CAATAATGTA	GTAAAGGTGG	ACTCGTTTA	AAAAAGCAC		
				ACGTTCCGGG	TGAGATGGAC	ACGCTGCACA	AGGCTCTGCT	CTTGACAGAT	GTCTGGGAAA		
				GCAGAGTGGT	GGAGGAAACT	TCCAACTTTT	ACCTGGCTGC	TGCCATAGTT	TCTGAGCTAA		
				CGTGCTGTCA	GCATTATAAA	CCCTCCCAAT	CTACTAGTCA	AGAAGTAGAC	AGAATGTATG		
				TGAGGTTACA	TGTTAACTGA	GGAAATCGGT	TCAGGGCTGG	GGTGAGAGTA	AGTGTGTGAA		
				TGCACTCAGG	GGAGGAGTGT	TGCAAACTTT	TATTGTAAAT	GAGTGCCACA	AAAGGGGTAA		
				TTGCACTCTT	CTTCACTTTT	TGAAGACTTC	TAGCAGAAAA	ATGAAGAGA	ATTTTATTTA		
				TAAATGAGCA	AATGGGAACA	TTTTTTTCT	GTAAATGGAA	CAACAATGA	AAGTGGGGTG		
				AGTGCTCTTT	ATTACAGAGG	GAAAGGCTGA	ACATAAATCA	GTTAATGGCT	CATCAACAAT		

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p>caaaaccaca accaaacacca caaacctttc agctggcaga gttagcattg ggtagctata ctcatggtca taaatgtttg ccgctctata ttacaagtgtg tgcatacaac cagataaaga actaaatcat aggcgggga cagtcgctca cactgttaac ctacagcactt tgggaggctg agtgggcag atcaactgag ttacaggatt tgagaccacc ctggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gcacacgctt gtaatcccaag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtaacat tccaacttag gctacagaat gagactctgc ccaaaaaaa aaaaaaa</p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p>MQNGSALPN ASQVLRGDG APPSWLASAL ACVLFTIVV DILGNLLVIL SVYRNKKLRN P AGNIFVVSIA VADLVVAIYP YPLVMSIFN NGWNLGYLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLTLAAVL PNLRAGTLQY DPRIYSCCTFA QSVSSAYTIA VVVFHFLVPM IIVIFCYLRI WILVLRQR VPDRKPKLK PQDFRNFVTM FVFEVLEAIC WAPLNFEGLA VASDPASMVP RIPEWLFVAS YMYAFNSCL NAIYGLLNQ NFRKEYRRII VSLCTARVFF VDSSNDVADR VKWKPSPLMT NNNVVKVDSV</p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttggttaacta caagggcctc aggtggggca ggtgcagagg gc</p> <p>MSENGSEANC CEAGGWAVRP GWSGAGSARP SRTPRPPWVA PALSAVLIIVT TAVDVVGNLL P</p> <p>VILSVLRNRK LRNAGNLFLV SLALADLVVA FYPYPLILVA IFYDGMWALGE EHCKASAFVM</p> <p>GLSVIGSVFN ITAIANTRYC YICHSMAYHRL IYRRWHTPLH ICLIWLLTVV ALLENFFVGS</p> <p>LEYDPRIYSC TFIQTASTQY TAAVVVIHFL LPIAVVSFCY LIWIVLVLQA RRKAKPESRL</p> <p>CLKPSDLRSE LTMFVWFVIF AICWAPLNCI GLAVAINPQE MAPQIPEGLF VTSYLILAYFN</p> <p>SCLNAIVYGL LNQNERREYK RILLALWNER HCIQDASKGS HAEGLOSPAP PIIGVQHQAD</p> <p>AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tggttgctgt ctggacactgg ctgctgatcc tgagcctgct gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggccac cctagcgggtt ccacccccct atggctgtat tggctgtaag</p> <p>ctaccccagc cagaataccc accggctcta atcatcttta tgttctgcgc gatggttacc</p> <p>accatcgttg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagaacaag</p> <p>aagctccgga atcttgcaa catcttcgtg gtcagtctct ctgtggccga tatgtgggtg</p> <p>gccatctacc catacccttt gatgtgcat gccatgtcca ttgggggctg ggaatctgagc</p> <p>cagttacagt gccagatggt cgggttcac acagggtga gttgtggtcg ctccatcttc</p> <p>aacatcgtgg caatcgctat caaccgttac tgctacatct gccacagcct ccagtaagaa</p> <p>cggatcttca gttgycgaa tacctgcatc tacctggtea tcaactggat catgaccgtc</p> <p>ctggctgtcc tggccaacat gtacattggc accatcgagt acgatccctg cactacacc</p> <p>tgcattctca actatctgaa caaccctgtc ttcactgtta ccatcgtctg catccacttc</p> <p>gtcctccctc tctcatcgt gggtttctgc tacgtgagga tctggaccaa agtgcgtggc</p> <p>gccctgacc ctgaggggca gaatcctgac aaccaacttg ctgaggttcc caattttcta</p> <p>accatgtttg tgatcttctt cctctttgca gttgtgctgt gccctatcaa cgtgctcact</p> <p>gtcttggtgg ctgtcagtcg gaaggagatg gcaggcaaga tccccaaactg gctttatctt</p> <p>gcagcctact tcatagccta ctccaacagc tgcctcaacg ctgtgatcta cgggctcttc</p> <p>aatgagaatt tccgaagaga atactggacc atcttccatg ctatgggca cctatcata</p> <p>ttcttccctg gccctatcag tgatatctgt gagatgcagg aggcccgtag cctggccccg</p> <p>gcccgtgcc atgtctgcga ccaagctcgt gaacaagacc gtgcccacatg ctgtcctgct</p> <p>gtggaggaaa ccccgatgaa tgtccgggaat gttccattac ctggtgatgc tgcagctggc</p> <p>cacccagacc gtgctctgtg ccacctaaag cccattcca gatcctctc tgcctatcgc</p> <p>aaatctgctt ctaccacca caagtctgtc tttagccact ccaaggctgc ctctggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gcctctggtc accccaagtc tggcactgtc</p> <p>taccctaagc ctgctctgtt ccatttcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatttc aagcctgctt ccagcaaccc caagcccatc</p> <p>actggccacc atgtctctgc tggcagccac tccaaagtctg cttcagatgc tggccaccag</p> <p>cacctaaac ccataagcc agctaccagc catgctgagc ccaccactgc tgactatccc</p> <p>aagcctgcca ctaccagcca ccctaagccc gctgctgctg acaaccctga gctctctgcc</p> <p>tccattgcc ccgagatccc tgccattgcc caccctgtgt ctgacgacag tgacctccct</p> <p>gagtcggcct ctgacctgc cgtggggccc accaagcctg tggccagcca gctggagtct</p> <p>gacacccatg ctgaccttc tgacctact agtagtacta ccagtaacaa tgattaccat</p> <p>gatgtcgtgg ttgttgatgt tgaagatgat cctgatgaa tggctgtgtg aaaaatgctc</p> <p>tcgtaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGICIGCKLPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTKNKKLR P	Homo sapiens
				NSGNIFVLSL SVADMLVAIY PYPLMLHAMS IGGWDLSQLQ CQMVGFITGL SVVGSIFNIV	
				AIAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGTIE YDPRTYTCIF	
				NYLNNPVFTV TIVCIHFVLV LLIVGFCYVR IPWKVLAARD PAGQNPQNQL AEVRNFLTME	
				VIFLLFAVCW CPINVLTVLV AVSPKEMAGK IWNWLYLAAY FIAYFNNSCLN AVIYGLLNEN	
				FRREYWTIFH AMRHPIIFEP GLISDIREMQ EARTLARARA HARDQAREQD RAHACPAVEE	
				TPMNVNRNVL PGDAAAGHPD RASGHPKPHS RSSSAYRKSA STHKSVFESH SKAASGHLKP	
				VSGHSPASG HPKSATVYPK PASVHEFKGDS VHEFKGDSVHF KPDSVHFKPA SSNPKEITGH	
				HVSAGSHSKS AFSAAATSHPK PIKPATSHAE PTTADYPKPA TTSHPKPAAA DNPELSASHC	
				PEIPAIAHPV SDDSDLPESA SSPAAGTPKP AASQLESDTI ADLPDPTVVT TSTNDYHDVV	
				VVDVEDDPDE MAV	
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgcct ccagcttgtta gagcggtctg tggaggagccc agaggaggag A	Homo sapiens
				acgaaggga aggagggcgt ggtggaggag gcaaaggcct tggacgacca ttgttggcga	
				ggggcaccac tccgggagag gggcgcttgg gctgttggg ggtgcgcgcc gggagcctgc	
				agcgggacca tccgtgggaac gcgctggga gctgtggac ctgctctcca ccaccatggt	
				cgggctcctt ttgtttttt tcccagcgtat ctttttggag gtgtcccttc tcccagaag	
				ccccggcagg aaagtgttc tggcaggagc gtctgtctcag cgtcgtgtgg ccagaaatgga	
				cggagatgtc atcattggag cctcttctc agtccatcac cagcctccgg ccgagaaagt	
				gcccagagg aagtgtgggg agatcaggga gcagtatggc atccagaggg tggaggccat	
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				cagttagatc cggactcct cctggcactc ttccgtgggt ttggaacaga gcattgagtt	
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				tgacggccag tccctcccc caggcaggac taagaagccc attgctggag tgatcggtcc	
				cggctccagc tctgtagcca ttcaagtga gaacctgtc cagctcttcg acatcccca	
				gacgcttat tcagccaca gcacgacct gagtgaaca acctgtaca aatacttct	
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				cgttttcaa gagctggctg cccagggaag cctctgtat gccattctg acaaaatcta	
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				acaccttctg gaaaatccca actttaaacg aatctgcaca ggcaatgaaa gcttagaaga	
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 gagggccgaa actcttcacc ttgatgtatg ttctgataca agttgttcag cttcttgtaa
 atgtgttttc cttcggcttg ttactgcctt ttgtcaata atcttgacaa tgcgtataa
 taaatatatt ctatttatt

Homo

3093 Metabotropic NP_000829.1 MVGLLIFFFP AIFLEVSLLP RSPGRKVLIA GASSQRSVAR MDGVDIIGAL FSVHHQPPAE P

170

Glutamate Receptor 1	Glutamate Receptor 2	Metabotropic NM_000839 Glutamate Receptor 2	3094	171	sapiens
KVPERKCGEI	REQYGIQORVE	AMEHTLDKIN	ADPVLPLPNI	LGSEIRDSCW	HSSVALEQSI
EFIRDSLISI	RDEKDGINRC	LPDQSLPPG	RTKKPIAGVI	GPSSSSVAIQ	VQNLLQLFEDI
PQIAYSATSI	DLSDKTLKY	FLRVPSDTL	QARAMLDIVK	RYNWTYVSAY	HTEGNYGESG
MDAFKELAAQ	EGLCIAHSDK	IYSNAGEKSF	DRLLRKLRE	LPKARVVVCF	CEGMTVRGLL
SAMRRLGVVG	EFSLIGSDGW	ADRDEIVEGY	EVEANGGITI	KLOSPVRSF	DDYFLKRLRD
TNTRNPWFPE	FWQHREQCRL	PGHLEENPNF	KRICTGNESL	EENYVQDSKM	GFVINAIYAM
AHGLQNMHHA	LCPGHVGLCD	AMKPIDGSKL	LDFLIKSSEI	GVSGEEWFD	EKGDAPEGRYD
IMNLQYTEAN	RYDYVHVGTW	HEGVLNIDY	KIQMNKSGV	RSVCSEPCLK	GQIKVIRKGE
VSCCWICTAC	KENEYVQDEF	TCACADLGWW	PNADLTGCEP	IPVRYLEWSN	IESIIAIAFS
CLGILVTLFV	TLIFVLRYDT	PVKSSSREL	CYIILAGIFL	GYVCFPTLIA	KPTTTSYCLQ
RLLVGLSSAM	CYSALVTKTN	RIARILAGSK	KKICTRKPRF	MSAWAQVIA	SILISVQLTL
VVTLIIMEPP	MPILSYPSIK	EYILICNTSN	LGVVAPLGYN	GLLIMSCTYY	AFKTRNVNPN
FNEAKYIAFT	MYTTCIIWLA	FVPIYFGSNY	KIITTCFAVS	LSVTVALGCM	FTPKNYIIIA
KPERNVRSFA	TTSDVVRMHV	GDGKLPCRSN	TFLNIFRRKK	AGAGNANSNG	KSVSWSEPGG
GQVPGQHMW	HRLSVHVKTN	ETACNQTAIV	KPLTKSYQGS	GKSLTFSDDTS	TKTLYNVEEE
EDAQPIRFSP	PGSPSMVVRH	RVPSAATTPP	LPPHLTAEET	PLFLAEPALP	KGLPPPLQQQ
QOPPPQKSL	MDQLQGVVSN	FSTAIPDFHA	VLAGPFGPGN	GLRSLYPPPP	PPQHLQMLPL
QLSTFGEELV	SPPADDDDD	ERFKLLQEVY	YEHEREGNT	EDELEEEED	LQAASKLTPD
DSPALTPPSP	FRDSVASGSS	VPSSPVSESV	ICTPPNVSYA	SVILRDYKQS	SSTL
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172	3094	Metabotropic NP_000830.1 Glutamate Receptor 2	aggtccgctt tgaccgcttt ggtgatggta ttggcgccta caacatcttc acctatctgc gtgcaggcag tgggcgctat cgctaccaga aggtgggcta ctgggcagaa ggcttgactc tggacaccag cctcatccca tgggcctcac cgtcagccgg cccctcgcc gcctctcgct gcagtgcgc ctgcctccag aatgagtgga agagtgtga gccggcgaa gtctgtgctt ggcttgcat tccgtgccag cctatgagt accgatgga cgaattcact tgcgctgatt gtggcctggg ctactggccc aatgccagcc tgactggctg cttcgaaactg cccagaggt acatccgctg gggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctgggtgccc tggccacct gttgtgtcg ggtgtctttg tgcggcaca tgcacacca gtggtcaagg cctcaggtcg gtagctctg tacatctgc tgggtgtgtg ctctctctgc tactgcata ccttcattct cattgccaag ccatccagc cagtgtgtac cttacggcgt cttgggttgg gcactgcctt ctctgtctgc tactcagccc tgctcacaa gaccaaccg attgcacgca tcttcggtgg ggcggggag ggtgcccagc ggccagctt catcagtcct gcctcacagg tggccatctg cctggcaatt atctcgggc agctgctcat cgtgtctgcc tggctgtgg tggaggcacc gggcacaggc aaggagacag ccccgaaacg cgggaggtg gtgacactgc gttgcaacca cgcgatgca agtatgttg gctcgtcggc ctacaatgtg ctctcctcgc cgctctgac gctttatgcc ttcaatactc gcaagtgcc cgaacttc aacgaggcca agttcatgg cttcaccatg tacaccacct gcatcatctg gctggcattg ttgcccattc tctatgtcac ctccagtgac tacgggtgac agaccacac catgtgcgtg tcagtcagcc tcagcggctc cgtgtgctt ggctgcctct ttgccccaa gctgcacatc atctcttcc agccgcagaa gaacgtggtt agccaccgg caccacccag cgcgttggc agtgcgtg ccagggccag ctccagcctt ggccaaagg gttgtcccc actggttgc atggccgcta ggtggtggac tgcacaaagt catcgctttg a MGSLALLAL LPLWGAAG PAKKVLTEG DLVLGGLFPV HQKGGPAEDC GPNVNEHRGIQ P RLEAMLFALD RINRDPHLLP GVRLGAHILD SCSKDTHALE QALDEVRLASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSDVSIQ VANLLRLFQI PQISYASTSA KLSDKSRYDY FARTVPPDF QAKAMAEILR FENWTYVSTE ASEGDIYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRLIQQ PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDGGWAL ESVVAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNNS RNPWFREFWE QRFRCSFRQR DCAHSLRAV PFEQESKIME VVNAVYAMAH ALHNMHRLC PNTTRLCDAM RPNVGRRLYK DFVLNVKFDA PFRPADTHNE VREDRFGDI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLPWASP SAGPLAASRC SEPCLQNEVK SVQPGEVCCW LCIPCQPYEY RLDEFTCADC GLGYWPNASL TGCFLPQY IRWGDWAVG PVTIACLGAL ATLEVLGVFV RHNATPVPVKA SGRELICYILL GGVFLCYCMT FIFIAPSTA VCTLRRLGLG TAFSVCYSAL LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISGQ LLIVVAVLWV EAPGTGKETA PERREVTLR CNRDASMLG SLAYNVLLIA LCTLYAENTR KCPENFNEAK FIFGFTMYTTC IWLALLPIF YVTSDDYRVQ TTTMCVSVSL SGSVVLGCLF APKLHIILFQ PQKNVWSHRA PTSRFGSAAA RASSSLGQGS GSQFVPTVCN GREVVDSTTS SL cttttgtctc ggtatgaggag gaccacacct gagccagagc ccgggtgtcag gctcaccgcc A gccgctgcca ccgcggtcag ctccagttcc tgctcggtgcg aggaattttg tgacaggctc tgttagtctg tctctccctt atttgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacct tgatatctcc cagaggtaca	Homo sapiens
173	3095	Metabotropic NM_000840 Glutamate Receptor 3	cttttgtctc ggtatgaggag gaccacacct gagccagagc ccgggtgtcag gctcaccgcc A gccgctgcca ccgcggtcag ctccagttcc tgctcggtgcg aggaattttg tgacaggctc tgttagtctg tctctccctt atttgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacct tgatatctcc cagaggtaca	Homo sapiens

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accacgtgca tcatctggtt ggccttcctc cctatatatt atgtgacatc aagtgactac
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174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p> tgtttgtttg caccacaggt tcaatcatc ctgttttaac ccagagaaga tggtgtcaca cacagactgc acctcaacag gttcagtgct agtggaactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacggtgtgc aatgggaggg aagtctctga ctcaccacc tcattctgtg gattgtgaat tgcagttcag ttctgtgtgt tttagactgt tagacaaaa tgctcacgtg cagctccaga atatggaaac gactgtatat agtcatgtgc tagaactttc ttagaaacag tacgataaat tttttttgag gactgtatat agtcatgtgc tagaactttc taggctgagt ctagtgtccc tattattaac aattccccca gaacatggaa ataaccattg tttacagagc tgagcattgg tgacagggct tgacatggct agtctactaa aaaaacaaaa aaaaaaacaa aaaaaaaa aaaaagaaa aaaaataaaa tacggtggca atattatgta accttttttc ctatgaagtt tttgttaggt cctgtgtgta actaatttag gatgagtttc tatgttgtat attaaagtta cattatgtgt aacagattga ttttctcagc aaaaaataaa aagcatctgt attaatgtaa agatactgag aataaaacct tcaaggtttt MLTRLQVLT ALFSKGFLS LGDHNFLRE IKIEGLVLG GLFPINEKGT GTEECGRINE P DRGIQRLAM LFAIDEINKD DYLLPGVKLG VHILDTCSR DYALEQSLEF VRASLTQVDE AEYMCPDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFQIPQISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILREFNWTY VSTVASEGDY GETGIEAFEQ EARLRNICIA TAEKVGRSNI RKSYSVIRE LQKPNARVV VLFMRSDSR ELIAAASRAN ASFTWVASDG WGAQESIIG SEHVAYGAI LELASQVPRQ FDRYFQSLN YNNHRNPWR DFWEQKFQCS LQNKRNHRRV CDKHLAIDSS NYEQESKIME VNAVAYAMAH ALHKMQRTLK PNTTKLCDAM KILDGKKLYK DYLLKINF TA PENPNKDADS IVKFDFTGDG MGRYNVFNQ NVGGKYSYLK VGHMAETLSL DVNSIHWSRN SVFTSQSDP CAPNEKNMQ PGDVCCWICI PCEPYEYLAD EFTCMDCSG QWPTADLTGC YDLPEDYIRW EDAAWAIQPV IACLGFMCTC MVTVFIRHN NTPLVKASGR ELCYILLFGV GLSYCMTFFF IAKPSPVICA LRRILGSSF AICYSALITK TNCIARIFDG VNQAQRPKF ISPSQVFIC IGLILVQIVM VSVMLILEAP GTRRYTLAEK RETIVLKCNV KDSMLISLT YDVLVILCT VYAFKTRKCP ENFNEAKFIG FTYMTTCIIW LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHILFQPK NVVTHRLHLN RFSVSGTGT YSQSSASTV PTVNCGREVL DSTTSSL ccgagtga caggagtgagg agagggtagc agcatgggct acgaggttgg ctgccctcag A tccccctgct gctgaagctg cctgcccacat gccaccaccag gccgtggggc caggggcctg ccagggtcag gagggtggcct gccgttcacg ggtctctagg gatttccgag atgacctgga agagaggctt gggctgggtg gggcccgccg tggccctttg cctgctctc agcctttacg gccccgtgat gccctctctc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc gcatagatgg ggaatcaca ctgggagggc tgttcccggg gcatggccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt tcgcccctgga tcgcatcaac aacgaccgg acctgctgc taacatcacg ctgggccc gcatctgga cacctgctcc agggacaccc atgcccctga gcagtgcctg acctttgtg agggcgtcat cgagaaggat ggacagagg tccgctgtgg cagtggcggc ccaccatca tcaccaagcc tgaaactgtg gtgggtgtga tccgtgtctt agggagctcg gtctccatca tgggtggccaa catccttcgc ctcttcaaga taccacagat cagctacgcc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccc cgtgggtgccc tcggacacgt accaggccca ggccatggtg gacatcgtcc gtgcccctca gtggaactat gtgtccacag </p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p> ccgagtga caggagtgagg agagggtagc agcatgggct acgaggttgg ctgccctcag A tccccctgct gctgaagctg cctgcccacat gccaccaccag gccgtggggc caggggcctg ccagggtcag gagggtggcct gccgttcacg ggtctctagg gatttccgag atgacctgga agagaggctt gggctgggtg gggcccgccg tggccctttg cctgctctc agcctttacg gccccgtgat gccctctctc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc gcatagatgg ggaatcaca ctgggagggc tgttcccggg gcatggccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt tcgcccctgga tcgcatcaac aacgaccgg acctgctgc taacatcacg ctgggccc gcatctgga cacctgctcc agggacaccc atgcccctga gcagtgcctg acctttgtg agggcgtcat cgagaaggat ggacagagg tccgctgtgg cagtggcggc ccaccatca tcaccaagcc tgaaactgtg gtgggtgtga tccgtgtctt agggagctcg gtctccatca tgggtggccaa catccttcgc ctcttcaaga taccacagat cagctacgcc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccc cgtgggtgccc tcggacacgt accaggccca ggccatggtg gacatcgtcc gtgcccctca gtggaactat gtgtccacag </p>	Homo sapiens

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176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	<p>caccttttcc ctctctggcg tccccggctg cttgtactct tggccttttc tgtgtctcct tcttggtctct tgcctccgcc tctctctctc atcctctttg tccctcagctc ctctgctttt cttgggtccc accagtgta cttttctgcc gttttcttcc ctgttctctc ctgtctcatt ctcgtccagc cattgctccc ctctccctgc cacccttccc cagttcacca aaccttacct gttgcaaaag agaaaaaagg aaaaaaatc aaaaacaaaa aaagccaaaaa gaaaaaaaa tctcagagt gtgcgcaagt gctgcgtcct cctgggtgcc tctgtgtgtg tccctgtggc ccgcagcctg ccgcctgcc ccgcccactc gccgtgtgc ttgcccgcct gcccgcccg tctgccgtct gtcttgcccg cctgcccgc gttattgacg acaatgtgta cggagttcacg tgcttggtgtg tttggtgatg gttattgacg acaatgtgta cggagttcacg caagaacatt tctaataaaa ataaacacat ggttttgcaa aaaa MPGKRGGLGW WARLPCLLL SLYGPMWPS LGKPKGHPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEGHRLE AMLFALDRIN NDPDLLNIT LGARILDTC RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGAGSS VSMVANILR LFKIPQISYA STAPDLSDNS RYDFSRVVP SDTYQAQMV DIVRALKWNV VSTVASEGSY GESGVEAFIQ KSREDGGVCI AQSVKIPREP KAGEFDKIIR RLLETSNARA VIIFANEDDI RRVLEAARRA NQTGHFFWVG SDSWGSKIAP VLHLEVAEG AVTILPKRMS VRGFDRYFSS RTLDNNRNI WFAEFWEDNE HCKLSRHALK KGSHVKKCTN RERIGQDSAY EQGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPMDP VDGTLQKKYI RNWNFSGIAG NPVTENGD APGRYDIQY QLRNDSAEYK VIGSWTDHLH LRIERHWPVG SQQLPRISIC SLPCQPERK KTVKGMPCW HCEPCTGYQY QVDRYCTKC PYDMRPTENR TGCRRPIIK LEWSPWAVL PLFLAVVFLG ATLEFVITFV RYNDTPIVKA SGRELSYVLL AGIFLCYATT FLMIAEPDLG TCSLRRRIFLG LGMSISYAAL LTKTNIYRI FEQKRSVSA PRFISPASQL AITFSLISLQ LLGICVWFV DPSHVVDFQ DQRTLDPRFA RGVLKCDISD LSLICLLGYS MLMVTCTVY AIKTRGVPE FNEAKPIGFT MYTTCIWL A FIPIFFGTSQ SADKLYIQTT TLTVSLSLSA SVSLGMLYMP KVYIILFHE QNVPKRRKSL KAVVTAATMS NKFTQKGNFR PNGEAKSELN ENLEAPALAT KQTYVYTNH AI</p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p>acaaaatggc cctttagaaa atacatctga attgctggct aatttcttga ttgcgactc A aacgtaggac atcgcttgtt cgtagctatc agaaccctcc tgaattttcc ccaccatgct atctttattg gcttgactc ctttcctaaa atggtccttc tgttgatcct gtccagctta cttttgaaag aagatgtccg tgggagtga cagtcacagt agagaggggt ggtggtcac atgccgggtg acatcattat tggagctctc ttttctgttc atcaccagcc tactgtggac aaagtccatg agaggaaagt tggggcggtc cgtgaacagt atggcattca gagagtggag gceatgctgc ataccctgga aaggatcaat tcagaccca cactcttgc caacatcaca ctgggctgtg agataaggga ctctgctg cttcggctg tggccctaga gcagagcatt gagttcataa gagattccct catttctca gaagaggaag aaggcttgg acgctgtgtg gatggctcct cctcttccct ccgctccaa aagcccatag taggggtcat tgggctggc tccagtcttg tagccattca ggtccagaat tttccagc ttttcaaat accctcagatt gcttactcag caaccagcat ggtatctgagt gacaagactc tgttcaataa tttcatgagg gtttgctctt cagatgctca gcaggcaagg gccatggttg acatagtga gaggtacaac tggacctatg tatcagccgt gcacacagaa ggcaagtgg gagaaagtgg gatggaagcc ttcaaaagata tgcagcgaa ggaagggtt tgcctgccc actcttaca aatctacagt</p>	Homo sapiens

aatgcagggg agcagagctt tgataagctg ctgaagaagc tcacaagtca ctgcccagg gcccgggtgg tggcctgctt ctgtgaggc atgacggtga gaggtctgct gatggccatg aggcgcctgg gtctagcggg agaatttctg cttctgggca gtgatggctg ggctgacagg tatgatgta cagatggata tcagcgagaa gctgttggtg gcatcacaat caagctocaa tctcccgatg tcaagtgggt tgatgattat tctcgccaga acaaaaccac cgaaccctt ggtttcaaga attttggcag catcgttttc agtgcgact gaaagggttt ccacaggaga acagcaata caacaagact tgcaatagtt ctctgactct gaaaacacat catgttcagg attccaaaat gggatttgtg atcaacgcca tctattcgat ggcctatggg ctccacaaca tgcagatgtc cctctgccc ggtatgag gactctgtga tgcctgaag ccaattgtct tttggagtcc ctgatgaaaa ccaattttac tggggtttct ggagatacga tccatttcga tgagaatgga gactctccag gaaggatatga aataatgaat ttcaaggaaa tgggaaaaa ttactttgat tatatcaacg ttggaagtgg ggacaatgga gaattaaaa tggatgatga tgaagtatgg tccaagaaa gcaacatcat cagatctgtg tgcagtgaac catgtgagaa aggcagatc aagtgatcc gaaagggaga agtcagctgt tgttggaact gtacaccttg taaggagaat gagtatgtct ttgatgagta cacatgcaag gcatgccaac tggggtcttg gccactgat gatctcacag gttgtgactt gatccagta cagtatctc gatgggtgga cctgaaacc attgcagctg tgggttttgc ctgccttggc ctccgtggca cctgttttgt tactgtatc ttcatactt accgtgatac accagtatc aagtcctcaa gcagggaact ctgctacatt atccttgcg gcacttgcct gggctactta tgtaccttct gctcattgc gaagcccaaa cagatttact gctaccttca gagaattggc attggtctct cccagccat gagctactca gcccttgtaa caaagacca cgtatgtga aggatcctgg ctggcagcaa gaagaagatc tgtacaaaa agccagatt catgagtggc tgtgccagc tagtgattgc tttcattctc atatggcat agttgggcat cctcgttgc ctcttataa tggagcctcc tgacataatg catgactacc caagcattcg agaagtctac ctgatctgta acaccacca cctaggagtt gtcactccac ttggatacaa tggattgtg attttgagct gcaocttcta tgcgttcaag accagaaatg ttccagctaa ctccaacgag gccaaagtata tgccttccac aatgtacag acctgcatta tatggctagc ttttgtgcca atctactttg gcagcaacta caaaatcatc accatgtgtt tctcgttcag cctcagtggc acagtggccc taggtgcat gtttgtgccc aaggtgtaca tcatcctggc caaaccaag agaaacgtgc gcagggcctt caccacatc accgtgtgac gcatgcatgt aggggatggc aagtcatcct ccgagccag cagatccagc agcctagtc aactgtgaa gagaaggggc tcccttgggg aaaccttaag ttccaatgga aaatccgtca cgtgggcccc gaaatgagaag agcagccggg ggcagcacct gtggcagcgc ctgtccatcc acatcaaaa gaaagaaaa cccaaacaaa cggcgtcat caagcccttc cccaagagca cggagagccc tggcctgggc gctggcgctg gcgcaggcgg gagcgtggg ggcgtgggg ccaagggtgg tgcgggctgc gcaggcgcg gcccaggcgg gccgagtc ccagacgcg gcccaaggc gctgtatgat gtggccgagg ctgaggagca ctctccggcg cccgcgcgc cgcgtcac gtccgccatc agcacgtga gccacgcgc gggctcgcc agccgcacg acgacgatgt gccgtcgctg cactcgagc ctgtggcgcg cagcagctcc tgcagggct cctcatgga gcagatcagc agtgtgtga cccgcttcc gcaccaatc actccatgat gctgtccacc agtgccccc gcccgccgt cgccggcccc tctctgctgt cctactgat ccccaagag

Accession	Gene	Protein	Species
178	Metabotropic Glutamate Receptor 5	Metabotropic Glutamate Receptor 5	Homo sapiens
3097	Metabotropic Glutamate Receptor 5	Metabotropic Glutamate Receptor 5	Homo sapiens

179	3098	Metabotropic NM_000843 Glutamate Receptor 6	Homo sapiens
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177/448

180	3098	Metabotropic NP_000834.1 Glutamate Receptor 6	<p> tgggcctctc tggcaggaac tctgatgcac cgcgaggccc atgtactcct gtggctttct cacattcggg ctacttgtag ggtatctcca cagcatgcac cattctgggt acagggggac atcctctgtt actgaagatg ttgtcatatt tagtaccttc acaagggttc tctcctcca gaattttctg atgtacacaa ataactgact tccacaagag ggcttttcca cactcgggtg gtgcatacag ttctcgcctg tgatcatctc tttatgttat tttttatttt ttcgagata gggtcttgct caatttctta ggctggagtg cagtggcacg atcatagctc actgaagttt cgacctgggc tcaagcaatc ctccgccttc agcctcctga gtagctgggt cgcacgacca taccagcta atgttttatt tttgttagag acgaggtctc actatgttc caggtcgggt ctcgaacttc tgagctcgag cgatcctcct gcctccacct cccaaagtgt tcggattaca aacgtgagcc atcgacaccta gcctcttga tcatctctgt ggtgttcagt gggggttgac agctccctaa agattttcct gtttttttgc atgcatgggt ttgaattcct tgagggtccaa tttatttga cccctgaata aggttttctg gggtttcttc tatgtgtgga attatatagg cattcttcca gbtgggttct tcttatgtcg agtgagagct gacctgcacc gaagtgtgtc ccatttgggt ccttgaattt atctgtatga attatatgtt ccagtgaaaa tggagttctg ggttgaggc ttattccatg tttacacaa taaatttga ggttctcct ctgggatgag agctctaaag cagagtaaga ttacgttctg atgtaagctt taaccacct tttataaggt ctcactgtg gtcactgtg ttgagacttc tacagaagag cttctgtata gtaaccattt tcttaggctg tctcacttgt gtgaattctc tgacacattt attatagctt tgtcccat cttatccttt ttgctcttta gaaatttccc ttttaatttat tacattcatt gcttactgta aagagtcagg gtaactgact ttaatttcaa ttacttctg ttaataaat ttaacttttc cc </p>	Homo sapiens
181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> KKEQGVHRL EAMLYALDRN ADPELLPGVR LGARLDTCS RDTYALEQAL SFVQALIRGR GDGDEVGVR PGVPPLRPA PPERVAVVG ASASSVSIMV ANVRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNYVSTLA SEGNYGESGV EAFVQISREA GGVCIAQSIK IPREPKEGEF SKVIRRLMET PNARGIIIFA NEDDIRRVLE AARQANLTGH FLWVGSDSWG AKTSPILSLE DVAVGAITIL PKRASIDGFD QYFMTSLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKCTGEERIG RDSTYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LLQYIRAVRF NGSAGTPVME NENGAPGRY DIFQYQATNG SASSGGYQAV GQWAEIIRLD VEALQWSDP HEVPSSLCSL PCGGERKKM VKGVPCWHC EACDGYRFQV DEFTCEACPG DMPTPNHTG CRPTPVVRLS WSSPWAAPPL LLAVLGIVAT TTVVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAAVC AARRLFLGLG TTLSYSALLT KTNRIYRIFE QGKRSVTPPP FISPTSQLVI TFSLSLQW GMIAWLGRAP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGLCGYSLL LMVCTVYAI KARGVPETFN EAKPIGFTMY TTCIWLAFV PIFFGTAQSA EKIIYIQTTL TVSLSLASV SLGMLYVPKT YVILFHPEQN VQKRKRSLKA TSTVAAPPKG EDAEAHK gaattcccaa caccaggtta attttgtat ttttagtaga gattgggttt caccatgttg A gccaggatgg tctccatctc ttgacctcg gatcctcctg gcttggtctc caaagtgct gggattacag ccagtagtca ccatatccag ccaactcgag tcatcttat ggggcaaa cttggtctgaa ccagggtttt ctaaagatac aaacccatgg gcaacaccaa gcatctta ggaataggca cctggctgac tccaggcatt ctaataatag agacacctgg gcgaactcag </p>	Homo sapiens

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agactacgat gaacacaaga caatgaaccc tgagcaagcc agagggttc tcaagtgtga
cattacagat ctccaaatca ttgtctctt gggtatagc attcttctca tgggtcacatg

182	3099	Metabotropic NP_000835.1 Glutamate Receptor 7	tactgtgtat gccatcaaga ctcggtgtgt acccgagaat tttaacgaag ccaagcccat tggattcaact atgtacacga catgtatagt atggcttgcc ttcattccaa ttttttttgg caccgctcaa tcagcggaag agctctacat acaaaactacc acgcttacaa tctccatgaa cctaagtga ctagtggtgc tggggatgct atacatgccg aaagtgtaca tcatcatatt ccacctgaa ctaaatgtcc agaaacgga cgaagcttc aaggcggtg tcacagcagc caccatgtca tcgaggtgtg cacacaaacc cagtacaga ccaacgggtg aggcaaaagac cgagctctgt gaaaacgtag acccaaacag ccctgctga aaaaagaagt atgtcagtta taataacctg gttatctaac ctgttccatt ccctggaacc atggagagg aagaccctca gtatttttgt caccacact gccataggac tctttgttcc taccgcttc ccatcacgg aggagcttcc cggccgggga gaccagtgtt agaggatcca agcagactaa acagtgtctt tatgaaatat ccttacttta tctgggctta ataagtcact gacatcagca ctgccaactt ggctgcaatt gtggaccttc cctaccaaag ggagtgtga aactcaagtc cgcgcccggc tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg tatgtacttc taggttgcaa ggttttgaaa tttctgtgac agttgtgag gacctttgca ctttgccatc tgatgtgta cctcggttca ctgtttgttt tcgaatgctt tgttttcata gagccctatt ctctcagag gtggaatatt tggaaaaatt ttaaaaaaat taaaatttta aagcaatctt ggcagactaa acaagatga tctgtacatg actgtataat tacgattata gtaccactgc acatcatgtt tttttttttt aagacaaaaa agatgtttta agacaaaaa ctgtgtctgag aaagtatgcc ccacctatct ttggtatatg ataggttaca taaaaggaag gtattggctg aactgaatag aggtcttgat ctttggaatg catgccagta atgtatttta cagtacatgt ttattatgtt caatatttgt atttgtgttc tctttgttta ttttaatta gggtatatga atattttgca ataattttta taattattaa gctgtttgaa ggaagaata tggatttttc atgtcttgag gttttgttca tgcacctttt gactgacag tgtgataaag actttaggaa aaaaagcatg tatgtttttt actgtttgta ataatgactt tcgttaactt tgctgcttat gtgccaattt agtgaaaaa acaaacctt gctgaaaaat tccctcttcc cattctcttt caattctgtg atattgtcca agaattgtat aataaggaaat tc GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDNLLPNVT LGARILDTC RDTYALEQSL TFVQALIQKD TSDVRCNTE PPVFKPEKV VGVIGASGSS VSIMVANIIR LFQIPQISYA STAPELSDDR RYDFFSRVVP PDSFQAQAMV DIVKALGWNY VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIPQER KDRITDFDRI IKQLLDTNPN RAVVIFANDE DIKQILAAAK RADQVGHFLW VGSDSWGSKI NPLHQHEDIA EGATTIQPKR ATVEGFDAF TSRTLENNRR NVWFAEYWEE NFNCKLTISG SKKEDTRKC TQBERIGKDS NYEQEGKVQF VIDAVYAMAH ALHNMNKDLC ADYRGVCPEN EQAGGKLLK YIRNVNFNGS AGTPVMFNKN GDAPGRYDIF QYQTTNTSNP GYRLIGQWTD ELQLNIEDMQ WGKGVREIPA SVCTLPCKPG QRKKTQKGT CCWTCEPCDG YQYQFDEMT CQCPYDQRP ENRTGCQDIP IIKLEWHSP AVIPVFLAML GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIAP DVAVCSFRRV FLGLGMCISY AALLTKTNRI YRIFEQKKKS VTAPRLISPT SOLAITSSLI SVQLLGVIW FGVDPNIII DYDEHKTMNP EQARGVLKCD TIDLIQICSL GYSILLMVT TVYAIKTRGV PENFNEAKPI GFTMYTTTCIV WLAFIPIFFG TQSAEKLYI QTTTLTISMN LSASVALGML YMPKVYIIIF HPENLVQKRK RSFAVVTAA TMSRSLSHKP SDRPNGEAKT ELCENVDPNS	Homo sapiens
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183	3100	Metabotropic Glutamate Receptor 8	Metabotropic NM_000845	PAAKKKYVS Y NNLVI	Homo sapiens
				tgctgtgttg caagaataaa ctttgggtct tgatttgcaa taccacctgt ggagaaaatg A	
				gtatgcgagg gaaaggatc agcctcttgc ccttgtttct tccctttgac cgccaaagtcc	
				tactggatcc tcacaatgat gcaagaact cacagccagg agtatgccc tcccatcgg	
				gtggatggg acattatgtt ggggggtctc tcccttgc acgcaaaagg agagagagg	
				gtgcttctgt gggagctgaa gaaggaaaaa gggattcaca gactggaggc catgctttat	
				gcaattgacc agattaacaa ggacctgat gctctttcca acatcaactc ggggtgtccgc	
				atccctgaca cgtgctctag ggacacctat gctttggagc agtctctaac attcgtgcag	
				gcattaatag agaaagatgc ttcggatgtg aagtgtgcta atggagatcc accattttc	
				acaaagcccc acaagatttc tggcgtcata ggtgctgcag caagctccgt gtccatcatg	
				gttgctaaca ttttaagact ttttaagata cctcaaatca gctatgcatc cacagcccca	
				gagctaagt ataacaccag gtatgacttt ttctctcgag tggttccgcc tgactcctac	
				caagcccaag ccatggtgga catcgtgaca gcactgggat ggaattatgt ttcgacactg	
				gcttctgagg ggaactatgg tgagagcggg gtggaggcct tcaccagat ctcgaggag	
				attggtggtg ttgcatctgc tcagtcacag aaaaatcccc gtgaaccaag acctggagaa	
				tttgaaaaaa ttatcaaacg cctgctagaa acacctaatg ctcgagcagt gattatgttt	
				gccaatgagg atgacatcag gaggatattg gaagcagcaa aaaaactaaa ccaaagtggg	
				catcttctct ggattggctc agatagtggg ggatccaaaa tagcacctgt ctatcagcaa	
				gaggagattg cagaaggggc tgtgacaatt ttgccccaac gagcatcaat tgatggattt	
				gatcgatact ttagaagccg aactcttgc aataatcgaa gaaatgtgtg gtttgcagaa	
				ttctgggagg agaattttgg ctgcaagtta ggaatcacatg gaaaaggaa cagtcataa	
				aagaaatgca cagggtgtgga gcgaattgct cgggattcat ctatgaaca ggaaggaaaa	
				gtccaatttg taattgatgc tgtatatctc attggttacc cctgcaaaa tatgcacaaa	
				gatctctgcc ctggatacat tggcctttgt ccacgaatga gtaccattga tgggaaagag	
				ctacttgggt atattcgggc tgtaaaattt aatggcagtg ctggcactcc tgtcaccttt	
				aatgaaaaac gagatgctcc tggacgttat gatattcttc agtatcaaat aaccaacaaa	
				agcacagagt acaaagtcat cggccactgg accaatcagc ttcatctaaa agtggaaagac	
				atgcagtggg ctcatagaga acatactcac ccggcgtctg tctgcagcct gccgtgtaag	
				ccaggggaga ggaagaaaaa ggtgaaaagg gtcccttgtc gctggcactg tgaacgctgt	
				gaagggtaca actaccaggt ggtgagctg tccctgtgaa tttgccctct ggatcagaga	
				cccaacatga accgcacagg ctgccagctt atccccatca tcaaatgga gtggcattct	
				ccctgggctg tgggtcctgt gtttgttgca atattgggaa tcatcgccac cacctttgtg	
				atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acgcgaactt	
				agttacgtgc tcctaacggg gatttttctc tgtattcaca tcacgttttt aatgattgca	
				gcaccagata caatcatatg ctcttccga cgggtcttcc taggacttgg catgtgtttc	
				agctatgcag cccttctgac caaaacaaac cgtatccacc gaattattga gcaggggaaag	
				aaatctgtca cagcgcccaa gttcattagt ccagcatctc agctgggtgat caccttcagc	
				ctcatctccg tccagctcct tggagtgttt gtctgggtttg ttgtggatcc cccccacac	
				atcattgact atggagagca gggacacta gatccagaga aggccagggg agtgcaccaag	
				tgtgacattt ctgatctctc actcatttgt tcaatttgat acagtatcct ctgtatggtc	

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	acttgtagtg tttatgcca taaacacaga ggtgtccag agactttcaa tgaagccaaa cctattggat ttaccatgta taccacctgc atcatttggt tagctttcat ccccatcttt tttggtacag ccagtcagc agaaaagatg tacatccaga caaacacact tactgtctcc atgagtttaa gtgctcagt atctctggc atgtctata tgccaaagt ttatatata atctttcatc cagaaacagaa tgttcaaaa cgaagagga gcttcaaggc tgtgtgaca gctgccacca tgcaaacgcaa actgatccaa aaaggaaatg acagacaaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaaccc aacacttctc ctaccaagac aacatatatc agttacagca atcatcaat ctgaacacag gaaatggcac aatctgaaga gacgtgggtat atgatcttaa atgatgaaca tgagaccgca aaaaattcat cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aaggaaacaaa aattagccat gagccaaaag tatcaataaa cggggagtag aaaaaccctg ttatacaat aaaaacaatg agtgtcaagc taaagtattg cttattcatg agcagttaaa acaaatcaca aaggaaaaac taatgttagc tcgtgaaaaa aatgctgttg aataaataa tgtctgagt tattcttgta ttttctgtg attgtgagaa ctcccgctcc tgtccacat tgtttaact gtataagaca atgagtctgt ttcttgtaat gctgaccag attgaagccc tgggtgtgac taaaaataa tgcaatgatt gatgatgca atttttata caataattt atttctaata ataaaggaat gtttgcaaa aaaaaaaa aaaaactcga g	Homo sapiens
185	3212	Opioid mu- type Receptor	ggaattcccg ctataggcag aggaagaatg cagatgctca gctcgggtccc ctccgcctga A cgctctctc tgtctcagcc agactgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaaagga agcggtcag gcgcttgaa cccgaaaaagt ctggtgtctc ctggtacct cgcacagcgg tgcccgcccg gccgtcagta ccatggacag cagcgtgcc cccacgaacg ccagcaattg cactgatgcc ttggcgtact caagtgtcga cccagcccc agccccggtt cctgggtcaa cttgtccca ttagatggca aactgtccga cccatgcggt ccgaaccgca ccaacctggg cggaagagac agcctgtgcc ctccgaccgg cagtcctccc atgatcacg ccatcacgat catggccctc tactccatcg tgtggtggtt ggggtctctc ggaacttcc	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPTNA PTGSPSMITA STLPFQSVNY RTPRNAKIIN FAFIMPVLII YVLIKALVTI EQNSTRIIRQ atgaacacatt ggtcctctggc acagggaacc aactacttcc ctctatacca	SNCTDALAYS ITIMALYSIV LMGTWPEGTI VCNWILSSAI TVCYGLMILR PETTFQIVSW NTRDHPSTAN cagcccccacc aagtggcctt tgctgggtact tgctgagcct cgtaacctgt	SCSPAPSPGS CVUGLFGNFI LCKIVISIDY GLPVMFMATT LKSVRMLSGS HFCIALGYTN TVDRTNHQLE NLEAETAPLP tgctgtcagc cattgggac catctctttc ggcctgtgct catggggccac	WNLSHLDGN VMYVIVRYTK YNMFTSIFTL KYRQGSIDCT KEKDRNLRI SCLNPVLYAF NLEAETAPLP cccaacatca accacgggcc aaggtcaaca aggtctatca tgggctctgg	LSDCGPNRT MKTATNIYIF CTMSVDRYIA LTFSHPTWY TRMVLVVAV LDENFKRCFR EFCIPTSSNI ccgtctctggc tcctgtcgtg cggagctcaa gacctcatca gcacgctctgg	NLGGRDSLCP NLALADALAT VCHPVKALDE ENLVKICVFI FIVCWTPHIH LLENFKRCFR EFCIPTSSNI accaggaaag agccacagt gacagtcaat tcctcatgac ttctgacctc	Homo sapiens
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	atgaacacatt ggtcctctggc acagggaacc aactacttcc ctctatacca	SNCTDALAYS ITIMALYSIV LMGTWPEGTI VCNWILSSAI TVCYGLMILR PETTFQIVSW NTRDHPSTAN cagcccccacc aagtggcctt tgctgggtact tgctgagcct cgtaacctgt	SCSPAPSPGS CVUGLFGNFI LCKIVISIDY GLPVMFMATT LKSVRMLSGS HFCIALGYTN TVDRTNHQLE NLEAETAPLP tgctgtcagc cattgggac catctctttc ggcctgtgct catggggccac	WNLSHLDGN VMYVIVRYTK YNMFTSIFTL KYRQGSIDCT KEKDRNLRI SCLNPVLYAF NLEAETAPLP cccaacatca accacgggcc aaggtcaaca aggtctatca tgggctctgg	LSDCGPNRT MKTATNIYIF CTMSVDRYIA LTFSHPTWY TRMVLVVAV LDENFKRCFR EFCIPTSSNI ccgtctctggc tcctgtcgtg cggagctcaa gacctcatca gcacgctctgg	NLGGRDSLCP NLALADALAT VCHPVKALDE ENLVKICVFI FIVCWTPHIH LLENFKRCFR EFCIPTSSNI accaggaaag agccacagt gacagtcaat tcctcatgac ttctgacctc	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p>tga</p> <p>tggtgggcc tggactatgt ggccagcaat gctccgtca tgaatctgt gctcatcagc tttgaccgt acttctcgt gactcgccc ctgagctacc gtgccaagcg cacacccgc cgggcagctc tgatgatcg cctggcctgg ctggtttcct ttgtgctcg ggcaccagcc atcctctctt ggcagctacc gtaggggag cggacgatgc tagctgggca gtgctacatc cagttcctct ccagcccat cctacctttt ggcacagcca tggctgctt ctactccct gtcacagtca tgtgcacgt ctactggcg atctaccgg agacagaaa cggagcacgg gagctggcag ccttcaggg ctccgagag ctaggcaaa ggggtggcag cagcagcagc tcagagaggt ctgagccagg ggtgagggc tcaccagaga ctctccagg cctgctgt cgctgctgc gggcccccag gctgctgag gctacagct ggaaggaaaga agagaaagag gacgaaggct ccatggagtc cctcacatcc tcagaggag aggagcctgg ctccgaagt gtgatcaaga tgccaatggt ggaccccgag gcacaggccc ccaccaagca gcccacagg agctccccc atacagtcaa gaggcgact aagaaaggcg gtgatcgagc tggcaaggcg cagaagcccc gtggaagga gcagctggcc agcggaaga ccttctcgt ggtcaaggag aagaaggcgg ctggaccctt gactgacct cctcctgct tcactctcac ctggacacccg tacaacatca tggctgctgt gtcacacctc tgcaaggact gtgttccga gacctgtgg gagctgggct actggctgtg ctacgtcaac agcaccatca accccatgtg ctacgcactc tgcaacaaag ccttccggga caccttctgc ctgctgctg tttgcccgtg ggacaaaga cgctggcgca agatccccc aagccctggc tccgtgcacc gcactccctc ccgccaatgc</p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p>tga</p> <p>atgaataact caacaaactc ctctaacaat agcctggctc ttacaagtcc ttataagaca A tttgaagtgg tgtttattgt cctggtggct ggatccctca gtttgtgac cattatcggg aacatcctag tcatggtttc cattaaagt aaccgccacc tccagaccgt caacaattac tttttattca gcttggcctg tctgacctt atcatagggt tttctccat gaacttgtac acctctaca ctgtgattgg ttactggcct ttgggacctg tgggtgtga cctttggcta gccctggact atgtggtcag caatgcctca gttatgaatc tgctcatcat cagctttgac aggtacttct gtgtcaaaa acctctgacc taccagtcga agcgaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcttc tctttcatcc tctgggctcc agccattctc ttctggcagt tcatgttagg ggtgagaact gtggaggatg gggagtgtcta cattcagttt ttttccaatg ctgctgtcac ctttggtagc gctattgcag ccttctattt gccagtgtac atcatgactg tgctatatgg gcacatatcc cgagccagca agagcaggat aaagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gctctgtaca aggaaggata gtgaagccaa acaataacaa catgcccagc agtgacgatg gcttggagca caacaaaaatc cagaatggca aagcccccag ggtcctgtg actgaaaaact gtgttcaggg agaggagaag</p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	<p>gagagctcca atgactccac ctacgtcagt gctgttgctt ctaatatgag agatgatgaa ataacccagg atgaaaacac agtttccact tccctgggcc attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccagg acccaaaaa gtgactcatg taccceact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcctgcaa aaaaagacc tctccttcc cgggaaaaaaga aagtcaccag gacaattctg gctattctgt tggctttcat catcacttgg gccccatata atgtcatggt gctcattaac accttttctg cactttgcat ccccaacact gtgtggacaa ttggttactg gctttgttac atcaacagca ctatcaaccc tgcctgctat gcactttgca atgcacactt caagaagacc tttaaacacc ttctcatgtg tcattataag acataaggcg ctacaaggta a</p>	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	<p>FLFSLACADL IIGVFSMNLV TLYTVIGYWP LGPVVCDLWL ALDYYVSNAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMIAAAWVL SFILWAPAIL FWOPIVGVRT VEDGECYIQF FSNAAVTFTG AIAAFYLPVI IMTVLYWHIS RASKSRIKDD KKEPVANQDP VSPSLVQGR VKPNNNNMPS SDDGLEHNI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRRDDE ITQDENTVST SLGSHKDENS KQTCIRIGTK TPKSDSCTPT NTVVGVGSS GQNGDEKQNI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILLAFIITW APYNVMVLIN TFCAPCIEN VWTIGYWLCY INSTINPACY ALCNATFKKT FKHLMLCHYK NIGATR</p>	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	<p>atgggccaact tcacacactgt caatggcagc tcgggcaatc agtccgtgag cctgggtcacg A tcatcatccc acaatcgcta tgagacgggtg gaaatgggtct tcattggcac agtgacaggc tccctgagcc tggtagctgt cgtgggcaac atcctgggtga tgcgttccat caaggtcaac aggcagctgc agacagtcaa caactacttc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgctt tctccatgaa cctctacacc gtgtacatca tcaagggtca ctggccccctg ggcgccgtgg tctgcgacct gtggctggcc ctggactacg tggtaggcaa cgctccctgc atgaaccttc tcatcatcag ctttgaccgc tacttctgag tcaccaagcc tctcacctac cctgccccgc gcaccaccaa gatggcaggc ctcatgattg ctgctgcttg ggtactgtcc ttcgtgctct gggcgccctgc catcttgctt tggcagtttg tggtaggtta gcggacgggtg ccgacacacc actgcttcat ccagtttctg tccaacccag cagtgacctt tggcacagcc attgctgctt tctacctgac tgggttcac atgacgggtg tgtacatcca catctccctg gccagtcgca gccagtcaca caagcacggg ccgaggggccc cgaaggagaa gaaagccaaag acgttggcct tctcaagag cccactaatg aagcagagcg tcaagaagcc ccgccccgga ggcgccccgg gagtagctgc caatggcaag ctggaggagg cccccccgccc agcgtctgcca</p>	Homo sapiens

193	3226	Muscarinic acetylcholin e Receptor M4	NP_000732.1	<p>ccgccaccgc gccccgtggc tgataaggac. acttccaatg agtccagctc aggcagtgcc accagaaca ccaaggaacg cccagccaca gagctgtcca ccacagagg caccactccc gccatgccg cccctccct gcagccgcg gccctcaacc cagctccag atggtccaa atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgct gccagccgg ctggcatg cctggcgcc aactgggcc gcaagtgc cagcatcgct cgcaaccagg tgcgaagaa ggcgcatg gcggccggg agcgaagt gacacgaacg atctttgcca ttctgtag cttcatcct cactgagc cctacaact catggtcctg gtgaacacct tctgccagag ctgcatcct gacacgggt ggtccattgg ctactggctc tgctacgtca acagcaccat caacctgccc tgctatgctc tctgcaacgc cactttaaa aagaccttc ggcacctgct gctgtgccag tatcggaaca tcggcactgc caggtag MANETPVNGS SGNQSVRLVT SSSHRYETV EMVFIATVTG SLSLVTVGN ILVMSIKVN P RQLQTVNNYF LFLACADLI IGAFSMNLYT VYIIKGYWPL GAVVCDLWLA LDYVVSNASV MNLLIISFDR YFCVTKPLTY PARRTKMAG LMIAAAWVLS FVLWAPAILF WQFVVGKRTV PDNHCFIQFL SNPAAFTGTA IAAFYLPVVI MTVLYIHISL ASRSRVHKHR PEGPEKKAK TLAFLKSPLM KQSVKKPRPG GRPGLRNGK LEEAPPALP PPPRPVADKD TSNESSGSA TQNTKERPAT ELSTTEATP AMPAPPIQPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP ATPAGMRPAA NVARKFASIA RNQVRKKRQM AARERKVTRT IFAILLAFIL TWTPYVMVL VNTFCQSCIP DTWISIGYWL CYVNSTINPA CYALCNATEK KTFRHLLLCQ YRNIGTAR atggaagg ggc attcttacc caatgaacc accgtcaatg gcacccagc aaatcaccag A cctttggaac gccacaggtt gtgggaagtc atcacattg cagctgtgac tgctgtggtgta agcctgata caattgtgg caatgtcttg gtcatgact ccttcaaat caacagccag tcaagacag ttaacaacta ttactgtctc agcttagct gtgcagatct catcatgga atcttctcca tgaacctcta caccactac atctcatg gacgtgggc tctcgggagt ctggcttgtg acctttggct tgcactggac tacgtggcca gcaacgcttc tgtcatgaac ctctgggtga tcagttttga ccgttacttt tccatcaca gaccttgac atatcgggccc aagcgtact cgaagaggc tggcatcatg attggcttgg cctggctgat ctcttcatc ctctggggcc cagcaatcct ctgctggcag tacttgggtg ggaagcggac agttccactg gatgagtgc agatccagtt tctctctgag ccacatca ctttggcac tgccattgct gccttctaca tccctgttc tgtcatgacc atctctact gtgaaatcta ccgggaaaca gagaagcga ccaaggacct ggtgacctc cagggttctg actctgtgag caaagctgag aagagaaagc cagctcatag ggtctgttc agatcctgct tgcgtgtcc tcgacccacc ctggccccc gggaaaggaa ccaggccctc tggctatcct ccgcaggag cactccacc actgggaagc catcccaagc cactggccca agcgcgaatt gggccaaagc tgagcagctc accacctgta gcagctaccc tctctcagag gatgaggaca agccgcacc tgacctgtc ctccaaagtgg tctacaagag tcagggtgaa gaaagccag ggaagaatt cagtgtgaa gagactgagg aaacttttgt gaaagctgaa actgaaaaa gtgactatga caccctaac taccttctgt ctccagcagc tgctcataga cccaagagtc agaatgtgt ggcctataag ttcagattgg tggtaaaagc tgacgggaac caggagacca acaatggctg tcacaagtg aaaatcatgc cctgcccctt ccagtgggc aggaacctt caacgaagg cctcaatccc aacccagcc atcaaatgac caaacgaaag agagtgttcc tagtcaaaaga gaggaagca gccagacac tgagtggcat tctcctggcc ttcattcatca catgacccc gtataacatc</p>	Homo sapiens
194	3227	Muscarinic Acetylcholin e Receptor M5	NM_012125	<p>atggaagg ggc attcttacc caatgaacc accgtcaatg gcacccagc aaatcaccag A cctttggaac gccacaggtt gtgggaagtc atcacattg cagctgtgac tgctgtggtgta agcctgata caattgtgg caatgtcttg gtcatgact ccttcaaat caacagccag tcaagacag ttaacaacta ttactgtctc agcttagct gtgcagatct catcatgga atcttctcca tgaacctcta caccactac atctcatg gacgtgggc tctcgggagt ctggcttgtg acctttggct tgcactggac tacgtggcca gcaacgcttc tgtcatgaac ctctgggtga tcagttttga ccgttacttt tccatcaca gaccttgac atatcgggccc aagcgtact cgaagaggc tggcatcatg attggcttgg cctggctgat ctcttcatc ctctggggcc cagcaatcct ctgctggcag tacttgggtg ggaagcggac agttccactg gatgagtgc agatccagtt tctctctgag ccacatca ctttggcac tgccattgct gccttctaca tccctgttc tgtcatgacc atctctact gtgaaatcta ccgggaaaca gagaagcga ccaaggacct ggtgacctc cagggttctg actctgtgag caaagctgag aagagaaagc cagctcatag ggtctgttc agatcctgct tgcgtgtcc tcgacccacc ctggccccc gggaaaggaa ccaggccctc tggctatcct ccgcaggag cactccacc actgggaagc catcccaagc cactggccca agcgcgaatt gggccaaagc tgagcagctc accacctgta gcagctaccc tctctcagag gatgaggaca agccgcacc tgacctgtc ctccaaagtgg tctacaagag tcagggtgaa gaaagccag ggaagaatt cagtgtgaa gagactgagg aaacttttgt gaaagctgaa actgaaaaa gtgactatga caccctaac taccttctgt ctccagcagc tgctcataga cccaagagtc agaatgtgt ggcctataag ttcagattgg tggtaaaagc tgacgggaac caggagacca acaatggctg tcacaagtg aaaatcatgc cctgcccctt ccagtgggc aggaacctt caacgaagg cctcaatccc aacccagcc atcaaatgac caaacgaaag agagtgttcc tagtcaaaaga gaggaagca gccagacac tgagtggcat tctcctggcc ttcattcatca catgacccc gtataacatc</p>	Homo sapiens

195	3227	Muscarinic Acetylcholin e Receptor M5	NP_036257.1	<p>atgggtcctgg tttctacctt ctgtgacaaag tgtgtccag tcacctgtg gcacttgggc tattggtgt gctatgtcaa tagcactgtc aaccccatct gctatgccct ctgcaacaga accttcagga agacctttaa gatgtgctt ctctgccgat ggaaaaagaa aaaagtggaa gagaagtgtg aacggcagg gacacagcaag ctaccctga LKTGTYHNAT TVNGTPVNHQ PLEHRLWEV ITIAAATVAV SLITIVGNVL VMISFKVNSQ P MKTWNYYLL SLACADLIIG IFSNMLTTY ILMGRWALGS LACDLWLALD YVASNASVMN sapiens LLVISFDRYF SITRPLTYRA KRTPKRAGIM IGLAWLISFI LMWPAILCWQ YLVGKRTVPL DECQIQFLSE PTITFGTAIA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRALE RSCLRCPRPT LAQRERNQAS WSSRRSTST TKGPSQATGP SANWAKAEQL TTCSSYPSE DEDKPADPV LQVVKSQGK ESPGEEFSAE ETEETFVKA ETEKSDYDTPN YLLSPAAHR PKSQKVAYK FRLVVRADGN QETNNGCHKV KIMPCFPFVA KEPSTKGLNP NPSHQMTKRK RVVLVKERKA AQTLSAILLA FIITWTPYNI MVLVSTFCDK CVPVTLWHLG YWLCYVNSTV NPICYALCNR TFRKTFKMLL LCRWKKKKVE EKLWQGNLSK LP Ytattgcagt atctttcagc ttccagttt atctgaagac cccggcacc aagtgaccag A gaggcagaga agaacttcag aggagttctg tcttgggtg cccgtgggtg agtgggaggg tccgggactg cagaccgtg gcgatggcca ctctccagc agcagaaacc tggatagacg gggtggagg cgtgggtgca gacgctgga acctgaccg ctgctagct gccggggcgg ccacgggggc agttgagact gggtggctgc aactgctgga ccaagctggc aacctctct cctcccttc cgcctggga ctgctgtgg cttcccccgc gccctccag cctggggcca acctcaccaa ccagttcgtg cagccgtctt ggcgcacgc gctctgggtc ctggcgtatg gtgtgggtgt ggcagtggca gttttggga acctgtgcat catctggatc atctggccc acaagcgcat gaggactgc accaactact tcttctgtaa cctggcttcc tccgacgctt ccatggccgc cttcaacacg ttgttcaatt tcatctacgc gttctatagc gagtgggtact ttggcgccaa ctactgcgc tccagaaact tcttctctat cacagctgtg ttcgcccagca tctactccat gacggccatt gcggtggaca ggtatatggc tattattgat ccttgaaac ccagactgtc tgcacagca accaagattg tcatgggaag tatttggatt ctgacatttc tacttgcctt cctcagttg cttatttcca aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccaaac aacatttccac ttaccatatt atcgtcata tactgtgtga ctgtttccca ttgctcatca tgggtattac ataccattt gttggaatta ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg ccaaaagaaa ggttgtcaaa atgatgatta ttgttgcatt gacatttgc atctgctggc tgcctatca tatttacttc attctcactg caatctatca acaactaat agatggaaat acatccagca ggtctacctg gctagctttt ggtggcaat gactcaacc atgtacaatc ccatcatcta ctgctgtctg aataaaagat ttcgagctgg cttcaagaga gcatttcgct ggtgtccttt catcaaaagt tccagctatg atgagctaga gctcaagacc accaggtttc atccaaaccc gcaaagcagt atgtacaccg tgaccagaat ggagtcctatg acagtcgtg ttgaccccaa cgatgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag accaagttt caatggctgc tctgcagga attcacaatc tgcctccgc acttcaagtt tcataagctc acctatacc tctgtggatg aatattctta ttccatttc ctgaggtaaa agattagttg gagaccatca tgggtgccagt ctaggacccc attctctat ttatcagtc tgtcctatat accctctaga aacagaaagc aattttagg cagctatggt caaatggaga</p>	Homo sapiens
196	3378	Tachykinin Receptor 3	NM_001059	<p>gaggtcagat atctttcagc ttccagttt atctgaagac cccggcacc aagtgaccag A gaggcagaga agaacttcag aggagttctg tcttgggtg cccgtgggtg agtgggaggg tccgggactg cagaccgtg gcgatggcca ctctccagc agcagaaacc tggatagacg gggtggagg cgtgggtgca gacgctgga acctgaccg ctgctagct gccggggcgg ccacgggggc agttgagact gggtggctgc aactgctgga ccaagctggc aacctctct cctcccttc cgcctggga ctgctgtgg cttcccccgc gccctccag cctggggcca acctcaccaa ccagttcgtg cagccgtctt ggcgcacgc gctctgggtc ctggcgtatg gtgtgggtgt ggcagtggca gttttggga acctgtgcat catctggatc atctggccc acaagcgcat gaggactgc accaactact tcttctgtaa cctggcttcc tccgacgctt ccatggccgc cttcaacacg ttgttcaatt tcatctacgc gttctatagc gagtgggtact ttggcgccaa ctactgcgc tccagaaact tcttctctat cacagctgtg ttcgcccagca tctactccat gacggccatt gcggtggaca ggtatatggc tattattgat ccttgaaac ccagactgtc tgcacagca accaagattg tcatgggaag tatttggatt ctgacatttc tacttgcctt cctcagttg cttatttcca aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccaaac aacatttccac ttaccatatt atcgtcata tactgtgtga ctgtttccca ttgctcatca tgggtattac ataccattt gttggaatta ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg ccaaaagaaa ggttgtcaaa atgatgatta ttgttgcatt gacatttgc atctgctggc tgcctatca tatttacttc attctcactg caatctatca acaactaat agatggaaat acatccagca ggtctacctg gctagctttt ggtggcaat gactcaacc atgtacaatc ccatcatcta ctgctgtctg aataaaagat ttcgagctgg cttcaagaga gcatttcgct ggtgtccttt catcaaaagt tccagctatg atgagctaga gctcaagacc accaggtttc atccaaaccc gcaaagcagt atgtacaccg tgaccagaat ggagtcctatg acagtcgtg ttgaccccaa cgatgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag accaagttt caatggctgc tctgcagga attcacaatc tgcctccgc acttcaagtt tcataagctc acctatacc tctgtggatg aatattctta ttccatttc ctgaggtaaa agattagttg gagaccatca tgggtgccagt ctaggacccc attctctat ttatcagtc tgtcctatat accctctaga aacagaaagc aattttagg cagctatggt caaatggaga</p>	Homo sapiens

197	Tachykinin Receptor 3	NP_001050.1	aaggtagtgt ataaatgtga caaagacact ataacaatgt tagcctccac ccaaaataaa atgggcttta aattt	197	Homo sapiens
3378			MATLPAAETW IDGGGGVGAD AVNLTASLAA GAATGAVETG WLQLLDQAGN LSSSPSALGL P PVASPAESPQ WANLTNQFVQ PSWRIALWSL AYGVVAVAV LGNLIVIIWII LAHKRMRTVT NYFLVNLAFS DASMAAENTL VNFIALHSE WYFGANYCRF QNEFFPITAVF ASIYSMTAIA VDRYMAIIDP LKPRLSATAT KIVIGSIWIL AFLFAPOCL YSKTKVMPGR TLCFQWPEG PKQHFTYHII VIILVYCFPL LIMGITYTIV GITLWGGEIP GDTCDKYHEQ LKAKRKVVRM MIIVMTFAI CWLPHYIYFI LTAIYQQLNR WKYIQQVYLA SFWLAMSSMT YNPIIYCCLN KRFRAGFKRA FRWCFFIKVS SYDELELKT REHPNRQSSM YTVTRMESMT VFDPNDADT TRSSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS	3378	Homo sapiens
198	Neuromedin B Receptor	NM_002511	gtgctgtgag gcttgcccg ggcacagtaaa cttgcagggg cgagagggag ggacatcgat A taaacctaaa tctgtggcgt tcagtctca gggcacccgag cgcgtgaaaa ctccagcgga ctctgtgga agggagatca tgcctcttaa gtctctttcc aacctctcgg tgaccaccgg cgcgaatgag agcggttccg tccccaggg gtgggaaagg gattctcgc cgccctcgga cgggaccacc acggagtgg tgatccgctg tggatcccg tccctctacc tgctcatcat cacctgggc ttgctggga acatcatgct ggtgaagatc tcatcaacca acagcgccat gaggagcgtc cccaacatct tcatcttaa cctggcgcc ggggacttgc tgctgctgct cacctgcgc ccggtggacg cctcgcgcta cttcttcgac gagtggatgt ttggcaaggt gggctgcaaa ctgacccctg tcatccagct cacttccgtg ggggtttccg tgttcaactc cactgccctc agcccgaca ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcattg ctgcggacct gtgtgaaggc catgggtatc tgggtggctc ccgtgtgtct ggcagttccc gaagcgggtg ttccagaagt ggtcgcgcac agtagcttgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catcaaaaga ttcattcagt gctcattttc ttggtctatt tcctcatacc acttgctatt attagcattt attattatca tattgcaaaag accttaatta aaagcgaca caatcttctt ggagaataca atgaacatac caaaaaacag atggaaacac ggaacgcct ggctaaaatt gtgcttgtct ttgtgggctg tttcatcttc tgttggttc caaacacat cctttacatg tatcggctct tcaactataa tgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggt ttctcagttt tggcaattct tgtgtcaacc catttgctct ttacctact agtgaaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtccctatcaa gagagaggaa ccagctacat actcagctct tcagcgggtc gtatgacatc tctgaaaagc aatgtaaga acatggtgac caattctgtt ttactaaatg gccacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa	198	Homo sapiens
199	Neuromedin B Receptor	NP_002502.1	MPSKSLSNLS VTTGANESGS VPEGWERDEL PASDGTTEL VIRCVIPSLY LLIITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLTCTVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSVGVS VFTLTALSAD RYRAIVNPMQ MQTSGALLRT CVKAMGIWW SVLLAVPEAV FSEVARISL DNSSTACIP YPQDELHPK IHSVLIFLV FLIPALISI YYHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFFICWF PNHILMYRS FNYEIDPSL GHMIVTLVAR VLSEGNSCVN PFALYLLSES FRHENSQLC CGRKSQBERG TSYLLSSAV RMTSLKSNK NMVTNSVLLN GHSMKQEMAM	199	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	tatactatcc ctatccctagc ttttaacctg agccagagct cactacacag gttcctggct A	Homo sapiens
			atcaggtctg aatctgcact actcaactta taaactgtct gcagacacct gttaggga ttgctgatac tggcgccgag gatctgaact cgttttacct tcttggttg agcacagga ccgccagct agaggagcac cagcgactg cgttcgactg cgttcgactg gtcgga ttgtttctcg gtgcaatcct gctggtgctt ttcggtggtt cgtgcggtat caagtcc atctctgtc ctacacacac aaagaaaaa acctctgat tggaaattgt ggaattttct cagccctac gagcgccgg gatctccag ccccgccct cctcccgcca gctgaggtc tccttcgtc gcctgcctt gctgcctt ctagggaccg cagtcctca gccgcagctg ggtcgtccg cccgccctt gccctgcct tttcccggtt cgtatcttgg ggaatctggc caagtcacg gaggtctgtc ttcgccccg cagctctcgc gaaactggg gtagagagc aaaggagag attcgtgaa ggaagggag gtaggtgag gcagctgag gtggtggctg gggaccgag agggggcc tggcacagta ggtgacagca gtagctgag gtaggtgctg gggaccgag agggggcc cctctggga ggtgtggt gtaggtgctt gtaggtgctt gtaggtgctt gtaggtgctt gacactgtc tgcctcctc gccacaaaa cttctctcc agtccctcc cctgagagc catgcgccg agcctctgca cctgttttct tgtgtttaag ggtggggtt gccccctcc ccacgtccc atctctgac cctccacctt ccccgccca ccccgaggt ggtgcggtg cccaggcgc cttggcctga gaggtcggc gcagaccgg cagcgccac cggccagccg ctctgactg tccggctgct cggcgccgg gcgcgggctg tctggaccct taggagggga cggaaccgga cttgcctttg ggcaccttc agggccctct ccaggtcggc tggctaata tcggacagc ggaactgcac catctgtttt cggctctcc ccaaaacgc gaggtccagg tcagttgtag actcttgtg caggtgtag ccaagtgag cgtactgaa aatgggtcca ataggtgtag aggtgtag gaaacagaca gtaggtgag tgaaggtgga caaataggg ccacaaaca cctctagagg tgaactgtc cgtgacctg agccagagct tatagatagt accaagctg ttgaggtaca agttgttct atattggct actgtccat catctgtctt gggttaattg gcaactcctt ggtgatccat gtggtgatca aatcaagag catgcgaca gtaaccaact tttcattgc caatctggt gtggcagatc ttttggtgaa cactctgtg ctaccgttca ccttacctc taccttaagt gggagtgga aaatgggtcc tgcctgtgc cacctgtgc cctatgccc cggcctggc gtacaagtat ccacaaatcac cttgacagta attgccctg accggcacag gtgcatctc taccacctg agagcaagat ctccaagcga atcagcttcc tgattattgg cttggcctg ggcacagtg cctgtctggc agtccctg gccatcttcc ggaagtattc gctgattgag atcatcccg actttgagat tgtggcctg actgaaaagt ggcctggcga ggagaagag atctatgga cttgtctatag tcttcttcc ttgtgatct tgtatgttt gccctgggc attatatcat tttctacac tgcgatttg agtataatga agaaccatgt cagtcctgga gctgcaaatg accactacca tcagcaagg caaaaaacca ccaaatgtc ggtgtgtgtg ggtgtgtgtg ttggtgtcag ctggctgct ctccatgcct tccagcttgc cgttgacatt gacagccagg tccctggacct gaaggagta aaactcatct tcacagtgtt ccacatcatc gccatgtgct ccacttttg caatccctt ctctatggct ggatgaacag caactacaga aaggttttcc tctggcctt ccgctgtgag cagcgttgg atgcatatca cctgaggtg tccgtgacat tcaaggctaa aaagaacctg gaggtcagaa agaacagtgg ccccaatgac tctttcacag aggtaccaa tgtctaagg agctgtgtgtg tgaataatgta tggatgaatt ctgaccagag ctatgaatct ggtgatggc	

201	Neuropeptide Y Receptor Type 2	3404	ggtcacaaag tgaaaactga tttcccatTT taaagaagaa gtggatctaa atggaagcat ctgctgttta attcctggaa aactggctgg gcagagcctg tgtgaaaata ctggaattca aagataaggc aacaaaatgg tttacttaac agttggttgg gtagtaggtt gcattatgag taaaagcaga gagaagtact tttgattatt ttcctggagt gaagaaaact tgaacaagaa attggtatta tcaagcatt gctgagagac ggtggtgaaa taagttagct tcaaatcac gttaggacct ggattgagga ggtgtgcagt tgcgttgctc ctgcttggt tatgaaaaa ccactgaaca gaaatttctc caggagacca caggctctcc ttcctcgcat tttgattttt ttgttcattc tctagacaaa atccatcagg gaatgctgca ggaacgatt gccactata cgaatggctt cgaggagata aactgaaatt tgctatataa ttaatatatt gccagatgat aggggaactc ctcaacactc agtgggcca tttgttcttaa aaccaattgc acgtttggtg aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaac atcatttaat ttctaattc aagttacatc cgctttatgg agatactatt tagataacaa gaatacaact tgatactttt attgttatc ctttttgaa atgtatgatt tctgttgtta tttacctttt taacagata aatattttt tttcattta gtagtagcga atctaattt aatctaactc tttagagata tatttcagag aaattccaag cacaccagta tgaccatcct tatttcagaa atgacaatgc atagaggaaa agtaatatgt gcaaaagctc cgaagaggat ggttaagtaa agacttaggt taccagtatc aggtttcgt tttgtatgt aggtagctct actgcctcct cttaaaacca acaaaaggaa gagagactgg ctgcaaaact ttagaaggaa tggtctcgaa taggttctct gggaggaatc ccgaggaat agacgtgct gctctgtga ttgtctccac tatcctgttt tgctctacc cactaatcca gcctgggagg ctctggggcat tagcgaagg cttcaccaca aggagacagg agcagatatt ccataggcat gcgtcctag tggcacgagt ggctbgggtc aggatcaaa agtgaaggat tggaaagta gctatctgga gagagagaga gattgtgttt tattctgtc ccatagcttt cctatcctat cctatctga gcttttaacc tgagccagag ctcactacac aggttctctg ctatcgagtc tgaatctgca ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catgggcggc aggatctgaa ctgcttttac ctcttgttt ggagcacagg gaccgcccag ctagaggagc accagcgac tgcgccccag cctggggcga ggtgctggag gattgttct cggtgcaatc ctgctggcg ttttcgggg ttctgcgagg atccagctcc ccatctctgc tctacacac acaaaagaaa acaactctcg attggaagt gtggaatttt ctacgcccct acgaggcgcg gggattctcc agccccggcc ctctcccg cagcctgagg tctctctgc tgcctgctt tgctagggac cgcagtcctc cagccgcagc tgggtctgtc cgccccct ttgccccgc cttttccccg ggcggtttg gtgaagtcgg cctcaagtc aggaggtctg tcttcgcccg gccagctctc	ggtcacaaag tgaaaactga tttcccatTT taaagaagaa gtggatctaa atggaagcat ctgctgttta attcctggaa aactggctgg gcagagcctg tgtgaaaata ctggaattca aagataaggc aacaaaatgg tttacttaac agttggttgg gtagtaggtt gcattatgag taaaagcaga gagaagtact tttgattatt ttcctggagt gaagaaaact tgaacaagaa attggtatta tcaagcatt gctgagagac ggtggtgaaa taagttagct tcaaatcac gttaggacct ggattgagga ggtgtgcagt tgcgttgctc ctgcttggt tatgaaaaa ccactgaaca gaaatttctc caggagacca caggctctcc ttcctcgcat tttgattttt ttgttcattc tctagacaaa atccatcagg gaatgctgca ggaacgatt gccactata cgaatggctt cgaggagata aactgaaatt tgctatataa ttaatatatt gccagatgat aggggaactc ctcaacactc agtgggcca tttgttcttaa aaccaattgc acgtttggtg aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaac atcatttaat ttctaattc aagttacatc cgctttatgg agatactatt tagataacaa gaatacaact tgatactttt attgttatc ctttttgaa atgtatgatt tctgttgtta tttacctttt taacagata aatattttt tttcattta gtagtagcga atctaattt aatctaactc tttagagata tatttcagag aaattccaag cacaccagta tgaccatcct tatttcagaa atgacaatgc atagaggaaa agtaatatgt gcaaaagctc cgaagaggat ggttaagtaa agacttaggt taccagtatc aggtttcgt tttgtatgt aggtagctct actgcctcct cttaaaacca acaaaaggaa gagagactgg ctgcaaaact ttagaaggaa tggtctcgaa taggttctct gggaggaatc ccgaggaat agacgtgct gctctgtga ttgtctccac tatcctgttt tgctctacc cactaatcca gcctgggagg ctctggggcat tagcgaagg cttcaccaca aggagacagg agcagatatt ccataggcat gcgtcctag tggcacgagt ggctbgggtc aggatcaaa agtgaaggat tggaaagta gctatctgga gagagagaga gattgtgttt tattctgtc ccatagcttt cctatcctat cctatctga gcttttaacc tgagccagag ctcactacac aggttctctg ctatcgagtc tgaatctgca ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catgggcggc aggatctgaa ctgcttttac ctcttgttt ggagcacagg gaccgcccag ctagaggagc accagcgac tgcgccccag cctggggcga ggtgctggag gattgttct cggtgcaatc ctgctggcg ttttcgggg ttctgcgagg atccagctcc ccatctctgc tctacacac acaaaagaaa acaactctcg attggaagt gtggaatttt ctacgcccct acgaggcgcg gggattctcc agccccggcc ctctcccg cagcctgagg tctctctgc tgcctgctt tgctagggac cgcagtcctc cagccgcagc tgggtctgtc cgccccct ttgccccgc cttttccccg ggcggtttg gtgaagtcgg cctcaagtc aggaggtctg tcttcgcccg gccagctctc	ILGVI GNSL VIHVT KEFS MRTVTNFFIA NLAVADLLVN TLCLPFTLY TLMGEWKMP VLCHLPY AQ GLAVQVSTIT LTVIALDRHR CIVYHLESKI SKRISFLIG LAWGISALLA SPLAIFREYS LIEIIPDFEI VACTEKWPE EKSIVGTVYS LSSLILYVL PLGIISFSYT RIWSKLKNHV SPGAANDHYH QRRQKTTKML VCWVVFVAVS WLPLHAFQLA VDIDSQVLDL KEYKLITVF HIIAMCSTFA NPLLYGWNS NYRKAFLSAF RCEQRDLAIH SEVSVTFKAK KNLEVRKNSG PNDSFTEATN V	Homo sapiens
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202	3405	Neuropeptide Y Receptor Type 4	NM_005972	atgaacacct ctacacctct tgggaccccc atacaacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgctgatgt gtgtgactgt gagcagaag gagaagcca acgtgacca cctgcttacc gcaaacctgg ccttctctga cttctctatg tgccctctct gacagccgtc gcccgccgtc tacaccatca tggactactg gatcttttga gagacctct gcaagatgtc ggccttcacat cagtcatgt cggtagcgtt ctccatcctc tcgctgtcc tcgtggccct ggagagggcat cagctcatca tcaacccaac aggttggaag cccagcatct cacaggccta cctggggatt gtgtcatct gggtcattgc ctgtgtcctc tccctgccct tccctggcaa cagcatcctg gagaatgtct tccacaagaa ccactccaag gctctggagt tccctggcaga taagtgtgtc tgtaccgagt cctggccact ggctcaccac cgcaccatct acaccacct cctgctcctc ttccagtact gcctccact gggcttcact ctggtctgt atgcacgcat ctaccggcgc ctgcagaggc aggggcgctt gtttcaag ggcacctaca gcttgcgagc tgggcacatg aagcaggtea atgtgtgtct ggtgtgtatg gtgtgtgctc ttgctgtgct ctgcatgtgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgccacggg aacctcatct tcttagtgtg ccacttgctt gccatggcct ccaacctgct caacctatcc atctatggct ttctcaacac caacttcaag aaggagatca aggccctggt gctgacttgc cagcagagcg cccctcgga ggaagtcgag catctgcccc tgtccacagt acatacggaa gtctccaaa ggtccctgag gctaaagtgc aggtccaatc ccatctaa CLMCVTVRQK EKANVTNLLI ANLAFSDFLM SEHCQSDVDV MFIIVTSYSI ETVVGVLGNL P QCMSVTVSIL SLVLVALERH QLIINPTGWK PSISQAYLGI VLIWVACVL SLPFLANSIL ENVFHKNHSHK ALEFLADKVV CTESMPLAHK RTIYTFLLL FQYCLPLGFI LVCYARIYRR LQRQGRVFEHK GTYSLRAGHM KQNVNVLVVM VVAFVWLWP LHVENSLEDW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNEK KEIKALVLTQ QQSAPLEESE HPLPLSTVHTE VSKGSLRLSG RSNPI	Homo sapiens
203	3405	Neuropeptide Y Receptor Type 4	NP_005963.1	gaaaggctat cggtaacaaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt cccagtctgg gatgactata aaagcagtgt agatgactta cagtatttct tgattgggtt ctatacattt gtaagtcttc ttggctttat ggggaatcta cttattttta tggtctctcat gaaaaagcgt aatcagaaga ctacggtaaa cttctcata ggaacttg ctttttctga tatcttggtt gtgctgtttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatattat gccttttctt caatgtgtgt cagttttggt ttcaacttta attttaatat caatggccat tgtcaggtat catatgataa aacatcccat atctaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctcccc ttccagtgtt tccagttctt gtggaacttc aagaacatt tggttcagca ttgctgagca gcaggatttt atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct agttcagtat attctgacct tagtttgtct tactgtaagt catacaagt9 tctgcagaag tataagctgt ggaattgtcca acaagaaaaa cagacttgaa gaaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtgggct tcaggtgaaa ctctcttgca gccataaattg	Homo sapiens
204	3406	Neuropeptide Y Receptor Type 5	NM_006174		Homo sapiens

191/448

205 3406 Neuropetide NP_006165.1
Y Receptor
Type 5 Homo sapiens

gagttattca ttcatcaaaa aacacagaag aagatatagc aagaagacag catgtgtggt
acctgtcca gaaagacctt ctcaagagaa ccactccaga atacttccag aaaactttgg
ctctgtaaga agtcagctct ctcatccag taagtccata ccagggtcc cacttgctt
tgagataaaa cctgaagaaa attcagatgt tcatgaattg agagtaaac gttctgttac
aagaataaaa aagagatctc gaagtgtttt ctacagatg accataactga tattagttat
tgctgttagt tggatgccac tacacctttt ccagtgtgta actgatttta atgacaatct
tatttcaaat aggcatttca agtgggtga ttgcatttgt catttgttg gcatgatgtc
ctgtgtctt aatccaattc tatatgggtt tcttaataat gggattaaag ctgatttagt
gtcccttata cactgtcttc atagttaata attctcactg ttt

MDLELDEYN KTLATENNTA ATRNSDFPW DDYKSSVDDL QYFLIGLYTF VSLGFMGNL P
LILMALMKR NQKTTVNFELI GNLAFSDFV VLFCSPTLT SVLLDQWMFG KVMCHIMPFL
QCVSVLSTL ILISIAIVRY HMIKHPISSN LTANHGYFLI ATVWTLGFAL CSPLPVFHS
VELQETFGSA LLSRYLCVE SWPSDSYRIA FTISLLLVQY ILPLVCLTVS HTSVCRSISC
GLSNKENRLE ENEMINLTILH PSKSGPQVK LSGSHKWSY FIKKHRRYS KKTACVLPAP
ERPSQENHSR ILPENFGSVR SQLSSSSKFI PGVPTCFEIK PEENS DVHEL RVKRSVTRIK
KRSRSVFYRL TILILVFAVS WMPLHLFHV TDFENDNLISN RHFKLVYCIC HLLGMMSOCL
NPILYGFLNN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531
Receptor
Type 1 Homo sapiens

tcaagctcgc ccgcgcgcgc ccgagccggg ctggcgctg tctctggggg cctggggaac A
cgcgcggttt ggagatcgga ggcacctgga acccgtggca agcgcgagc cgggagacag
cccaggaac cagcggtctt ggagctagga gccggaagt gggagtcggg aggagagcgg
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gtctctgggg cggggtctgt ggtgtgact gaaagtggct ttcccggtga tgtcttgatg
ctcctatctg tgcacttacc gtaggtaggg acagtgtcc atgcaccaca gacacacca

Homo
sapiens

207 3408 Neurotensin NP_002522.1

Receptor-
Type 1

cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg
ccctgcgtgc catgagtgcg tcggtcatgg agtcgcgagc ccctgagccg gccccgggtg
acggcacagc cctcacagct caaacgcccc cccccactcc caccatctgc aggtggtgaa
aacaacccc gtgtatctct caataaaggt ggcgcaaggc cctcgatgtg g
MRLNSSAPGT PGTPAADPFQ RAQAGLEAL LAPGFGNASG NASERVLAP SLELDVNTDI P
YSKVLTVAVY LALFVAVGTG NTVTAFTLAR KKSLSQSLQST VHYHLGSLAL SDLLTLLAM
PVELYNFIWV HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM

Homo
sapiens

208 3452 Opiate NM_000913

Receptor-
Like 1
(OPRL1)

ccctgcctgc accgtctgc gactgtcgtc gactgccagc cggctgaggg cgggggtctc caggtgggtc A
ccagctccca aggaggtgc agaagtaccg tacagatggg atttgcaggg cagtggcatg
gagccccctc tccccgcgcc gttctgggag gttatctacg gcagccacct tcaggggcaac
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caggcgccct tctgtccctc cgggtccaag gtcaccatcg tggggctcta cctggccgtg
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cgcacgtcca gcaaaagccca ggctgcaat gttggccatct gggccctggc cctcgatctc
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ggacaggctt ggcacggccc gggaagtga gcaggcagct tttctttggg gtgggacttg

209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	MEPLFPAPFW VCVGGLLGNC ALCKTVIAID VGVPVAIMGS RLRGVRLLSG LRFTALGYV KTSETVPRPA	EVYGSHLQG LVMYVILRHT YNNMFTSTFT AQVEDEIEC SREKDRNLRR NSCLNPILYA	NLSLLSPNHS KMKTATNIYI LTAMSVDRYV LVEIPTPDY ITRLVLVVVA FLDENFKACF	LLPPLLNLNA ENLALADTLV AICHPIRALD WGPVFAICIF VFVGCWTPVQ RKFCASALR	SHGAFLLPLGL LLTLPFQGTD VRTSSKAQAV LFSFIVPLV VFVLAQGLGV RDVQVSDRVR	KVTIVGLYLA ILLGFWPFGN NVAIWALASV ISVCYSLMIR QPSSETAVAI SIKADVALAC	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	atgacccagg atggcctccc gtgctgagct ttggcgctgg gcgacgtccc ggctgcctgg agcgtctcgg atgtggatcc gcttatctgg gcgtggggcc gtgtccagggt ccctcgctgc gcctctttac gtgatcaaga atcatcaatg ttgaaacctg gccaggggat cagttctccc caccatccc ggcgagactt gaaattcaca	caggcggcg cgcgcttagg tccagccgg gccttctgca cgccggcctc gtatggtgat atatgaacca agctgttgta tgatccggag tggtccacct gtgagcgggg tggttctcgt ttaaagggaag tccgattttt aaagcctttt tcagaaactgc ttctcttgtc ggaaggagat cactgatggc ctgacgaagc ctgcaagtga	gggtcctggc gaccttctgc ggccttccac gcctgtgcc ggtccgcata ccggtccacc cacggaaatt cagtgcctgc atcggcagga gctctgtgtg cctggaccac ggcgaacccc acaaggcatt caaaatcatg attctatctt agccaagacc tttggccttc ccagtgggaa ccatgaaaa cctgagcatg atcctgcaac	acaccgagc tgccccagc gcgctctgcc ggccgccgc ctgcgcgtg gtgtggttag tggtccctg ttctgtggc ctgagcacca gagggagccc gccatcccc atcctgttcc tacacggaga ctggttttaa gagatgcaaa acatggttta tacggctgga tcaactgacca cctcgctgc ggaagtgtcc gttctgaag aaaaatgagg	cgcgtccgcg ggagcgagc tggtctgcc cggtccgcg cggtccgcg gattccaaa cttctgcgt tggtgtgga tcctgtgta ccatgtctta actatgtcac aaaagacagt acgagaggag ttattgttg cagatatcaa ttatgggaat caggtatgag cctcgctgc ggaagtgtcc gttctgagc gtgacctgc	aacacagccc cacgcagctc cgggtccgc cggtccgcg cgaccttc ttttgtgac gggtgagtcg tgcatgggat tcacatcatg ctaccttc catgtacctg gactgcagtg gatgggagcc gttgtcgaat tggaggttct cctgaatcca cctgggtttt tgagggggct tcaaagtgggt cagcacaatt tctcccaacc	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgctggg ggtccagacc ccatttcct cagactcaac aattcttgtt ctttagaact gtgttctcac cttcccaaca ctgcactgcc gaagttagc ggcccccaca cctgtctctc atcacacagt agagcttctt cccgaaggcc ctttaggata ggagaaaggg ttcatgcaca cacgtgtgag aatggaagag cccctccag accactctac agctgctcta ccttagtg ccactagaa gtgtgtgag gctgctgta aagtaagtgt aaggtccaca tccctgggga agtagttaaa taaaatagtt atgactg MTQAGRRGPG TPEPRRTQP MASPRLTFC CPTRDAATQL VLSFQPRAFH ALCILSGGLR P LALGLLQLLP GRRPAGGSP ATSPASVRI LRAAAACDLL GCIGMVIKST VWLGFNFVD SVSDMNHTEI WPAAPCVGSA MWIQLYSAC FWLFCYAVD AVLVIRRSAG LSTILLYHIM AWGLATLLCV EGAAMLYYP VSRCEGLDH AIPHYVTMYL PLLLVIVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFFKIM LVLIICWLSN IINESLLFYL EMQTDINGS LKPVRTAAKT TWFMGILNP AQGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPLMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EHTASESCN KNEGDPALPT HGDL	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt accttggagc ctacaatgag aggtatttca aaatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttgggc cacttcaaga cgacaaacgc tcactggga aaacaccttc actgaaaaga gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagtga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaaacct ctgatactac agcagatcat tccgtgtctg tactgtatgg tcttcattgc gggaatccta tttcatcatc tatctcaaga acatgtttat tgctgacttt tactgtgccc gctctaagag tttcatcatc cttcgaatgag tgtcaggatg gatattcttt gtgatgagcc tgacttttcc ttccaagatc cttgtgtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctctttgg acttctttca tccagtcagt gattacagc aaacttctgt cagtgtatgt atggatgctc atgctctctc ttgctgttcc aaatattat ctccaccaac agagtgttag ggaggttaca caataaaaa gtatagaact gaaaagtga cttgggacgga agtggcacaa agcatcaaac tacatcttgc tggccatctt ctggattgtg tttcttttgt taatcgtttt ctatactgct atcacaaaa aaatcttta gtcccacctt aagtcaagtc ggaattccac ttcggtcaaa aagaaatcta gccgaacat attcagcatc gtgttttgtt ttttgtctg ttttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcatta cagctgccag tcaaaaagaaa tcttgcggtat tatgaaagaa ttcactctgc tactatctgc tgcaaatgta tgcttggacc ctattattta tttctttcta tggcagccgt ttagggaaat ctatgtaaag aaattgcaca ttccattaaa agctcagaat gacctagaca ttccagaat caaaagagga aatacaaac ttgaaagcac agatactttg tgagttccta cctcttcca aagaaagacc acgtgtgcat gttgtcatc tcaattacat aacagaaatc aataagatat gtgccctcat cataaatatc atctctagca ctgccatcca attagttca ataaaattca aatataagtt tccatgcttt tttgttaacat caaagaaaac ataccatca gtaatttctc taatactgac tttctattc tctattaata aaaaattaat atcaaatctc attaatattc attatattaa aataagttaa agtttataac cactagtctg gtcaggttaat gtgaaattt aaatagtaaa taaaacacaa cataatcaaa gacaactcac tcaaggcatct tctttctcta aataccagaa	Homo sapiens

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213	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	MINSTSTQPP DESCSQNLII TQOIIPVLYC MVFIAGILLN GVSGWIFFYV PSSKSFIIYL P KNIVIADEFVM SLTFPKILG DSGLGPMQLN VFVCRVSAVL FYVMXVSIV FFGLISFDRY YKIVKPLWTS FIQSVSYSKL LSVIVWMLML LLAVPNIILT NOSVREVTQI KCIELKSELG RKHKASNYI FVAIFWIVFL LLIVFYTAIT KKIFKSHLKS SRNSTSVKKK SSRNIFSIVF VFFVCFVPYH IARIPTYKSQ TEAHYSCQSK EILRYMKEFT LLLSAANVCL DPPIYFFLCQ PFREILCKKL HIPLKAQNDL DISRIKRGNT TLESTDTL tgttaaggct ctgggaccaa cgcctggcga accagctccg ctccggaggg gtctgcgcgg A ctggcctcgc cgcgccctta cgcgaccctg gcgctagtcg agcctcagcc cccagcacag cgccgcctc agacgcctg cgcgcgcga cgcctggagg cgcctcctgc tcgcctcctg taccatcca cgcaccagcc agcctgcgcg gaggggattc caaccgagcc atccaaactc ggcccgagg gaactcagct tagcatcaca ttaggctgcg tcagtcgcgc cgcctgaact ccggggggag tcaactttag cgacgcgtc actggggccc gactgcgtg cagtggaaag cgcctgaact ccgagaggaa tggcacgcctg gttcgcctgc gactcgtg gcttggtggc gtagaggat tcccgctcat ttgcagtggc tcagaggagg ggggtcctg gcttggtggc cagatccgtc cgtggagctt ccccgagctg agcccgggc gccctacac gtggaccag cagatccgtc gcccagccg gccaaagcgt aaagggtctg aaggccggg cctccgacac gccgaggtt catggaggc gcgctcgag ccaactggag cgcgaggca cgacccgtg ccgcccgggt gccggggcc gccggggcc gagggcaacc gcaccgcccg acccccgcg gcaaacgcca gcgcgcgc cctgggcgc cgtggaggtg gcggtgctgt gtctcatcct gctcctggcg cgcaacgagg cctgggcgc acgctgtgt gctgctggcg ctgcgacca cagccagaa gcactcgcg ctgagcggga acgctgtgt gctgctggcg ctgcgacca cagccagaa gcactcgcg ctcttcttct tcatgaagca cctaaagcat gccagcctgg tgggtggcagt gtttcaggtg ctgcgcgagt tgcgtggga catcaccttc cgttctacg ggcccgacct gctgtgcgc ctggtcaagt actgcaggt ggtgggcagt ttgcctcca cctactgct gctgctcatg tccctggacc gctgctggc catctgcag cgcctgcgt cgcctgcgc ccgacccgac cgctggcag tgcctggc gtggctggc tgcctggc cagcgcgc ccaggtgcac atcttctctc tgcgcgagt gctgacgc gcttcgagt gctggccgt ctctcatccag ccctggggac ccaaggccta catcacatgg atcacgctag ctgtctacat cgtgcgcgtc	Homo sapiens
214	3582	Oxytocin Receptor	NM_000916	gtttaaaggct ctgggaccaa cgcctggcga accagctccg ctccggaggg gtctgcgcgg A ctggcctcgc cgcgccctta cgcgaccctg gcgctagtcg agcctcagcc cccagcacag cgccgcctc agacgcctg cgcgcgcga cgcctggagg cgcctcctgc tcgcctcctg taccatcca cgcaccagcc agcctgcgcg gaggggattc caaccgagcc atccaaactc ggcccgagg gaactcagct tagcatcaca ttaggctgcg tcagtcgcgc cgcctgaact ccggggggag tcaactttag cgacgcgtc actggggccc gactgcgtg cagtggaaag cgcctgaact ccgagaggaa tggcacgcctg gttcgcctgc gactcgtg gcttggtggc gtagaggat tcccgctcat ttgcagtggc tcagaggagg ggggtcctg gcttggtggc cagatccgtc cgtggagctt ccccgagctg agcccgggc gccctacac gtggaccag cagatccgtc gcccagccg gccaaagcgt aaagggtctg aaggccggg cctccgacac gccgaggtt catggaggc gcgctcgag ccaactggag cgcgaggca cgacccgtg ccgcccgggt gccggggcc gccggggcc gagggcaacc gcaccgcccg acccccgcg gcaaacgcca gcgcgcgc cctgggcgc cgtggaggtg gcggtgctgt gtctcatcct gctcctggcg cgcaacgagg cctgggcgc acgctgtgt gctgctggcg ctgcgacca cagccagaa gcactcgcg ctgagcggga acgctgtgt gctgctggcg ctgcgacca cagccagaa gcactcgcg ctcttcttct tcatgaagca cctaaagcat gccagcctgg tgggtggcagt gtttcaggtg ctgcgcgagt tgcgtggga catcaccttc cgttctacg ggcccgacct gctgtgcgc ctggtcaagt actgcaggt ggtgggcagt ttgcctcca cctactgct gctgctcatg tccctggacc gctgctggc catctgcag cgcctgcgt cgcctgcgc ccgacccgac cgctggcag tgcctggc gtggctggc tgcctggc cagcgcgc ccaggtgcac atcttctctc tgcgcgagt gctgacgc gcttcgagt gctggccgt ctctcatccag ccctggggac ccaaggccta catcacatgg atcacgctag ctgtctacat cgtgcgcgtc	Homo sapiens

atcgtgctcg ctacctgcta cgcccttacc agcttcaaga tctggcagaa cttgcggctc
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gaaggtgaaa agataacctg cagaatggga gaaaatttt cgcagtcata tatatgataa
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tggctactaa gcacatgaa aatactcaac attattattc ttagggaaa tgcaagtcaa
aatcacaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

Homo
sapiens

215 3582 NP_000907.1 3582 Oxytocin Receptor

aacgagtgtc ggtgaggatg tagagaaact ggtagaaatt taaattgttg gtgggaatgt
 aaatggtgca cctgctttga aaacagttt ggagtagctt caaaaagtta aacgtagagt
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MEGALAANWS AEAANASAP PGAEGNRTAG PRRNEALAR VEVAVLCIL LLALSGNACV P
 LLALRTTRQK HSLRFFFMKH LSIADLVVAV FQVLPQLLWD ITRFYGPDL LCRLVKYIQV
 VGMEASTYLL LMSLDRLA ICQPLRLRR RTDRLAVLAT WIGCLVASAP QVHIFSLREV
 ADGVFDCWAY FIQWGPCKAY ITWITLAVYI VPVIVLATCY GLISFKIWQN LRLKTAATAA
 AEAPEGAAG DGRVALARV SSVKLISKAK IRTVKMTFII VLAFIVCWTP FEFVQWWSVW
 DANAPKEASA FIIVMLLASL NSCCNPWTYM LFTGHLFHEL VQRFLLCCSAS YLKGRRLLGET
 SASKKSNSS FVLSHRSSQ RSCSQPSTA

Homo
sapiens

216 3589 NM_002564 3589 Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)

cgccacgagg caccocgaga ggagaagcgc agcgagatgg cgagaggagc cccttctggc A
 agcagcacta cctgcccaga aaatgctgg aggtggggc tggccccagg cctgggggacc
 tgttttctct gtttcccga gagttccctg cagcccggtc caggtccagg cgtgtgcatt
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 tcaggcggac agagtccacg ccggctggta gcgagaacac taaggacatt cggctgtagg

199/448

217	3589	Puriner Receptor P2Y, G- protein coupled, 2 (P2RY2)	NP_002555.1	agcagaacac ttcagcctgt gcaggtttat attgggaagc ttagaggac caggacttgt gcagacgcca cagttctccc agatatggac catcagtgac tcatgctgga tgaccccatg ctccgtcatt tgacaggggc tcagatatatt cactctgtgg tccagagtca actgttccca taacccttag tcatcgtttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag agctcaaggc caatgacacc cctggcctga agtcccatgca agtagctggc tgtactgcca aggtacactag gttggagtc agcctaataca agtcaaatggc agaaacaggc ccagagagga aggtggctta ccaagatcac ataccagagt ctggagctga gctacctggg ttggggggcca agtcacaggt tggccagaaa accctggttaa gtaatgaggg ctgagtttgc acagtgttct ggaatggact ggggtccacg gtggacttag ctctgaggag taccctcagc ccaagagatg aacatctggg gactaatatc atagacctat ctggaggctc ccatgggcta ggagcagtgt gaggctgtaa cttatactaa aggttgtgtt gcctgctaaa aaaa MAADLGPWND TINGTWDGDE LGYRCRFNED FKYVLLPVS YVVCVLGLCL NAVALYIFLC P RLKTNASTT YNFHLAVSDA LYAASLPLLV YYARGDHPV FSTVLCKLVR FLFTNLVCS ILFLTICSVH RCLGLVLRPLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTTTSARGGR VTCHDTSAPF LFSRFVAYSS VMLGLLFAVP FAVILVCYVL MARRLLKPAY GTSGGLPRAK RKSVRTIAVV LAVEALCFEP FHVTRTLYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGFSPEAT PARRRLGLRR SDRTDMQIRIG DVLGSSEDFR RTESTPAGSE NTKDIRL	Homo sapiens
218	3595	Puriner Receptor P2Y1	NM_002563	ccccctccc cgaggatcca gttcgctgc tcccttcgc tcgctggctt tccgagtgt tgtgctgccc ctggccgccc ctgccccttc cccctcctc gccgcctcga gccgcgcct aagtcgagga ggagagaatg accgaggtgc tgtggccggc tgtccccaac gggacggacg ctgccccttc ggcgggtccc ggttcgtcct gggggaacag cacggctgcc tccactgccg ccgtctcttc gtcgttcaaa tgcgcttga cttccagttt tactacctgc cggtgtctca catcttggtt ttcateatcg gcttccctgg caacagcgtg gccatctgga tgttcgtctt ccacatgaag cctggagcg gcatctccgt gtacatgttc aatttgctc tggccgactt cttgtactgt ctgactctgc cagccctgat cttctactac ttaataaaa cagactggat cttcggggat gccatgtgta aactgcagag gttcatcttt catgtgaacc tctatggcag catcttggtt ctgacatgca tcagtgcaca ccggtacagc ggtgtggtgt acccctcaa gtcctgggc cggctcaaaa agaagaatgc gatctgtatc agcgtgctgg tgtggctcat tgtggtggtg gctatctccc ccatcctctt ctactcaggt accggggtcc gcaaaaaaaa aaccatcacc tgttacgaca ccacctcaga cgagtacctg cgaagtattt tcatctacag catgtgcacg accgtggcca tgttctgtgt ccccttggtg ctgattctgg gctgttacgg attaatgtg agagctttga tttaaaaga tctggacaac tctcctctga ggagaaaaatc gattacctg gtaatcattg tactgactgt tttgtctgtg tcttacatcc ctttccatgt gatgaaaaac atgaacttga gggcccggtc tgattttcag accccagcaa tgtgtgcttt caatgacagg gtttatgcca cgtatcaggt gacaagaggt ctagcaagtc tcaacagttg tgtggacccc attctctatt tcttggcggg agatactttc agaaggagac tctcccagc caaaggaaa gcttctagaa gaagtggagg aaatttgcaa tccaagagt aagacatgac cttcaatatt ttacctagt tcaagcagaa tggagatata agcctgtgaa ggcacaagaa tctccaaa cctctctgtt gtaatatggt aggatgctta acagaatcaa gtactttcc cctcttaac tttctagttt gaaaaaaat caaccaaga aaatagttag	Homo sapiens

219	3595	Purinergic Receptor P2Y1	NP_002554.1	<p> ttaaataaat aatagaagta gaaatgocca catccacact tagcttggtt gggtttgctt tcacagtctc tcttccttct gactagaagt atgtataata aacaataact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcctt tctgttttaa gtgtgtgtgc acatgagtac tggggctgtt tttgatatta gtaatttctc taagaaaact agccccctgc aacttgagtt tgttggttat ctgaccttta tttttttt aaaaaccaca gtaggataaa aaaatctata ttttcagaaa tatctagcat ggtatataac aaaaactaaa actcatcagt tcatccggca tcagatcaat ggtctctga ggggggtgtt tttttcagt tcttataagc atagatgata gttgactgag tttcttttagg gcattgaata gacaagttaa gtaaatgaat ttaaaagcct gaaagtgat tgtttccag ttattctgg aaaaggtctc attatatatt gggtgctaaa tgtttgatgg ggaagcctg catatatatt cgtactggta aaatgcattc aaaataatta aagtgcattg attttcttg taaacacact gagctctctt agacatcttg tgataaagag catttacttg cccactgct gtgcaatgcc ttaggacttt gtttggttc caggacaagt gttcactcac atctgtaaaa acaattttaa gaattgcaaa taaattacag accaaagatt ggtaaagtc aaataactgt tagtaagttg aaggatatgt gacaggagga cagtatttca gaaaggaga ggttgacagt catccacaaat gcatagcctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacattt tagaatgagg gccttttagt taaattaaag tcatggtgga gaagactctt gctccacca agtgtttgaa aacacaaaat acgatataaa aaaaaaaa aaaa MTEVLPVAVP NGTDAFLAG PGSSWGNSTV ASTAAVSSSF KCALTKTGFQ FYFLPAVYL P VFIIIGLGN VAIWMFVFMH KPWSGISVYM ENLALADFLY VLTLPALIFY YFNKTDWIFG DAMCKLQRFI FHNLYGSIL FLTCSAHRY SGWYFLKSL GRLKKNAIC ISVLVWLIV VAISPILFYS GTGVRKNKTI TCYDTSDEY LRSYFIYSMC TTVAMFCVPL VLIIGCYGLI VRALIYKDLD NSPLRKSII LVIIIVLTFEA VSYIPFVHMK TMNLRARLDF QTPAMCAFND RVYATYQVTR GLASLNSCVD PILYFLAGDT FRRRLSRATR KASRRSEANL QKSEDMTLN ILPEFKQNGD TSL </p>	Homo sapiens
220	3596	Purinergic Receptor P2Y5	NM_005767	<p> ctgatgaaag tgcctccaaa ctgaaaaattg gacgtgcctt tacgatggta agcgtaaaca A gctcccactg cttctataat gactccttta agtacacttt gtaggggtgc atgttcagca tggtgtttgt gcttggtta gtatccaatt gtgttgccat atacattttc atctgcgtcc tcaaagtcctg aaatgaaact acaacttaca tgattaaact ggcaatgtca gacttgctt ttgtttttac ttacacctc aggtattttt acttcacaa acggaattgg ccatttggag atttactttg taagatttct gtgatgctgt tttataccaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccatttt aagtcaaaaga ctctaagaac caaaagaaat gcaaagattg ttgtcactgg cgtgtggtta actgtgatcg gaggaagtgc accgcctgtt ttgttcagt ctaccactc tcagggtaac aatgcctcag aagcctgctt tgaataattt ccagaagcca catggaaaa atactctca aggattgtta ttttcatcga aatagtggga ttttttattc ctctaatttt aaatgaact tgttctagta tgggtgctaaa aactttaacc aaaccagta cattaagtag aagcaaaaa acaaaaacta aggttttaaa aatgattttt gtacatttga tcatattctg tttctgtttt gtctcttaca atatcaaatct tattttatat tctcttgtag gaacacaaac atttgttaat tgcacagtag tggcagcagat aaggacaatg tacccaatca ctctctgtag tgcgttttcc aactgttgtt ttgaccttat agtttactac tttacatcgg acacaattca gaattcaata aaaaataaaa </p>	Homo sapiens

221 3596 Purinergic
Receptor
P2Y5

NP_005758.1

actggtctgt caggagaagt gacttcagat tctctgaagt tcatgtgtgca gagaatttta
ttcagcataa cctacagacc ttaaaaagta agatatattga caatgaatct gctgctgaa
ataaaacat taggactcac tgggacagaa ctttcaa
MSDLLFVFTL PFRIFYFTTR NWPFGLLCK ISVMLFTNM YGSILFLTCT SVDRFLAIVY
PFKSKTLRTK RNAKIVCTGV WLTVIGGSAP AVFQVSTHSQ GNNASEACFE NFPEATWTKY
LSRIVIFIEI VGFPIPLIN VTCSSMVLKT LTKPVTLSRS KINKTKVLKM IFVHLIIFCF
CFVPYNINLI LYSIVRTQTF VNCSSVAAVR TMYPIITLCIA VSNCCFDPIV YYFTSDTIQN
SIKMNWSVR RSDFRFSEVH GAENFIQHNL QTLKSKIFDN ESAA

Homo
sapiens

222 3597 Purinergic
Receptor
P2Y6

NM_004154

aaggacagag gaggggccc tctgtcagc tggctgggag cagaggtggc ttgtctttt A
cggaagaact ggttctgtg aatttgtct tatttcccat caaggatcaa ggacctgtc
tggggtacc tcaggggccc acaggatgag gggctgggtt tcagatgagt ttctgcttg
cctgtcatct ggatagtgc taaaaattg caaactgcct tctgtcagt gtcttgctca
ttcttcata cactctgat atgtcttca gtttctcat ctgtgcctc tccagacttc
tgccagaaca ttgcacgga cagtctcagg cacagaactg actggcagca gggctgtctc
cacagtggtg aattgtctc agcacttcac gactgcaag cgaggcactt gtaactctt
ggataacaag acctctgcca gaagaacct ggctttggaa ggcggagtgc aggtgagga
gatgggtgcg gtctcagtg agccctgccc tccctgaaca taggaaaccc acctgggag
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accgcgagaa cttcaagcaa ctgctgtgc cactgtgta ttggcggtg ctggcggtg
gctgcccgt gaacatctgt gtcatctacc agactgtcac gtccgcccgg gccctgacc
gcaggccgt gtacaacct aacctgtct tggctgacct gtatatgccc tgcctctgc
ccctgtcat ctacaactat gcccaagtg atcactggc ctttggcgac ttgcctgcc
gcctggtccg cttcctcttc tatgccaacc tgcacggcag catcctcttc ctacactgca
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gccgcccggc tgcctggcta gtgtgtgtg cctgtgtggt ggccgtgaca accagtggc
tgccacagc catctctgct gccacaggca tccagcgtaa ccgactgtc tgcctatgacc
tcagcccgc tgcctggcc accactata tgcctatgg catgctctc actgtcatg
gcttctgtct gcccttctgt gccctgtgtg cctgtactg tctcctggcc tgcgcccgt
gccgcccagg tggcccggca gagcctgtg cccgtggcag cccctggcac aaactgggg
tggccgtggt ggtggtgtgt gcccttgcca tcagcttctt gcccttctac atcaccaga
cagcctacct ggcagtgcg tgcacgccc ggtccccctg cactgtattg gagcctttg
cagcggccta caaaggcag cgccgtttt ccagtgcga cagcgtgtg gacccatcc
tctctactt caccagaag aagttccgc ggcgaccaca tgagctctta cagaaactca
cagccaaatg gcagaggcag ggtcgtgtg tctctcaggt cctgggcagc ctctatatt
gccatttgt cgggggacc agagcccca ccaaccccaa accatgcgga gaattagagt
tcagctcagc tgggcatgga gtaagatcc ctacaggac ccagaagctc accaaaact
attcttcag cccctctct ggcagagacc ctgtgggcat ggagatggac agacctggc
ctgggtcttg agaggtccca gtcagccatg gagagctggg gaaaccacat taaggtgctc
acaaaaatac agtgtgact gtactgtcaa aa

Homo
sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTGQA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P	Homo sapiens
				TAVYTLNLAL ADLLYACSLP LLIYNYAQGD HWPFGDFACR LVRELFYANL HGSILFLTCI	
				SFQRYLGICH PLAPWHKRGG RRAAWLVCVA VMLAVTTQCL PTAIFAATGI QNRRTVCYDL	
				SPPALATHYM PYGMALTIVG FLPLPEALLA CYCLACRLC QDGPAPFVA QERRGKAARM	
				AVVAAAFAI SELPFHITKT AYLAVRSTPG VPCTVLEAFA AAYKGRPEA SANSVLDPIIL	
				FYFTQKKFRR RPHELLQKLT AKWQRQGR	
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctaccggtc catagtgta gagtggtaga cccctgcagc cagcaggcct cctgaaaaaa A	Homo sapiens
				aagtccaggt gtgacagaa attcattgac ttccaattcc aagattcaaa ttcaagcctc	
				agaccagggt tgggcaatgc tactgcaat aatacttgca ttgttgatga ttcttcaag	
				tataatctca atgggtgctgt ctacagtgtt gtattcatct tgggtctgat aaccaacagt	
				gtctctctgt ttgtcttctgt ttcccgcatg aaaaatgagaa gtgagactgc tatttttatc	
				accaatctag ctgtctctga ttgtcttttt gtctgtacac taccttttaa aatattttac	
				aacttcaacc gccactggcc ttgtgtgac accctctgca agatctctgg aactgcattc	
				cttaccaca tctatgggag catgctcttt ctacactgta ttagtgtgga tcgtttcctg	
				gccattgtct atctcttttcg atctctact attaggacta ggaggaaattc tgcatttgtg	
				tgtgctgggt tctggatcct agtctcagt ggcggtaatt cagcctcttt gtttccacc	
				actaatgtca acaatgcaac caccacctgc ttggaaggct tctccaaacg tctctggaag	
				acttatttat ccaagatcac aatatttatt gaagtgtgtg ggtttatcat tctcttaata	
				ttgaatgtct ctgtctcttc tgtgtgtgtg agaactcttc gcaagcctgc tactctgtct	
				caaatgggga ccaataagaa aaaagtactg aaaaatgatca cagtacatat ggcagtcttt	
				gtggtatgct ttgtacccta caactctgtc ctctcttgt atgccctgggt gcgtcccaa	
				gctattacta atgtcttttt ggaagattt gcaaatgatca tgtacccaat cactctgtgc	
				cttgcaactc tgaactgttg ttttgacct ttcatctatt acttcacct tgaatccttt	
				cagaagtctt tctacatcaa tggccacatc agaatggagt cctgttttaa gactgaaaca	
				cctttgacca caaagccttc ccttccagct attcaagagg aagtgagtga tcaaacaca	
				aataatgggt gtgaattaat gctagaatcc accttttagg tatgagaaat gtgttcaggt	
				ccagatatgg tttctctctat aatttttct atgctataaa ctaaagattt gaagctaagt	
				atactgagaa taatgcacca aatccagtca gatacatattg ttggaaggta tactgtagag	
				tttttattgc tgttttgttc agtaattata ggtcaaatct aattacaaca accaagatgg	
				attgccaaac tcttctgctt ggttggaatt tcatgtatc gcattatcca ggtggctagt	
				ggcatttgtat aatatagaga tgaatttgaa actttcaaaa agttatttct attccaatga	
				tatttggtaa ttaggtgggg cctataaata tagaacaatt tcagggattt ttaaaaaatt	
				gtgttactac tgatatatgc tagttttatt ttattttttt ggactgtcat tgagtttatt	
				ttagcacaag aatattttta gcctaactt attaataaga aatgtgtcaa atttttaaca	
				ttggtaaaat atgttatgtg cattttgaaa acagaaaaa aatgtgttg gcatgtacgt	
				gggtgggaag aaaaagaaaa ttaacaggat ttacacaatt ataatacaca gcagtgtgag	
				tttaaaaaac ttcgttgttt ttacaccaaa ttaaaatttt catgtcaaac ttcaaaagcca	
				gaaagctgct aatactgtgt ctggcaggta aaagctggaa aattacttaa aacaggaag	
				tgtcaataaa aaaacttgag caacaccaac atattttttc ttaaaatgtc acgttatctt	
				cattttggga aactaggttc tataaaatat ttatctctcc tgttactct tggagcacag	
				cacagccaga aaggggtgc atttgtgccc aggtcaggag caaattgaaa aaaaaataa	

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	agtaatacta aaaaatcaaa ctataaacc aaaaacattta ttaaaacctg aattaatcct ttttggagg aggagtagag atataaacc tgaataact tattctttct tategaattt tggagcctaa tatagccagg agctgctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaa aaaaattcct MGDRRFIDFQ FQDSNSSLRP RLGNATANNT CIVDDSFKNY LNCAYVSVF ILGLTNSVS P LFVFCFRMKM RSETAIFITN LAVSDLEFVC TLPFKIFYNF NRHPFGDTL CKISGTAFLT NIYGSMFLT CISVDRELA VYFPRSRTIR TRNSAIVCA GWILVLSGG ISASLFTTN VNNATTTCFE GFSKRWKTY LSKITIFIEV VGFIPLIN VSCSSVLR LTRKPAISQI GTNKKKVLKM ITVMMAFV CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDPI YFTLESFQK SFYINAHIRM ESLFKTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	ggccggtggc cggggccga ccacccagc tgcgctcgt tactggccac aagtttgctc A tgggccagcc aagttggcaa cttggaagct tctccgggc tctggaggag ggteccctgct tcttctaca ggcgtcccg gcatggccgg gctggggcg tgcctccacg tctgggggtg gtaaatgctc ggcagctgc tctggccag agccagctg gattctgatg gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagta caatgtgaac tcaacatcac agctcaactc caggaggag aaggtaatg ttccctgaa tgggatggac tcatttgtg gcccagagga acagtggga aaatatcgc tgttccatgc cctccttata tttatgactt caaccataaa ggagttgctt tccgacactg taaccccaat ggaacatggg attttatgca cagcttaaat aaacatggg ccaattatc agactgcctt cgccttctgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttccctgg ctgtggctat tcttatcat tggttacttca gacgattgca ttgcactagg aactatatcc acatgcactt atttgtgtc ttcattgctga gagctacaag catctttgtc aaagacagag tagtccatgc tcaatagga gtaaaaggagc tggagtcctc aataatgcag gatgaccac aaaattccat tgaggcaact tctgtggaca aatcacata tatcgggtgc aagattgctg ttgtgatgtt tattacttc ctggctacaa attattattg gacccctggt gaaggtctct acctgcataa tctcatcttt gtggctttct tttcggacac caaatacctg tggggcttca tcttgatag ctgggggttt ccagcagcat ttgttgcagc atgggctgtg gcacgagcaa ctctggctga tgcgaggtgc tgggaactta gtgctggaga catcaagtgg attatcaag caccgatctt agcagctatt ggcctgaatt ttattctgtt tctgaatacg gttagagttc tagctacaa aatctggag accaatgcaag ttgggcatga cacaaggaag caatacagga aactggccaa atcgacactg gtccctgtcc tagtcttttg agtgattac atcgtgttcg tatgcctgcc tcaactcttc actgggtcgc ggtgggagat ccgcatgcac tgtgagctct tcttcaactc ctttcagggt tcttttgtgt ctatcatcta ctgtactgc aatggagagg ttcaggcaga ggtgaagaag atgtgagtc ggtggaatct ctccgtggac tggaaaagga caccgccatg tggcagccgc agatcggtc cagtgtcac caccgtgacg cacagcaca gcagccagtc acaggtggcg gccagcacac gcatgggtct tatctctggc aaagctgcca agatcgccag cagacagcct gacagccaca tcactttacc tggctatgtc tggagtaact cagagcagga ctgcctgcca cacttttcc acgaggagac caaggaagat agtgggaggc agggagatga tattctaatg gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga	Homo sapiens

227	3638	Parathyroid Hormone Receptor 2 (PTH2)	NP_005039.1	<p> MAGLGASLHV WGWLMLGSL LARAQLDSG TTIEEQIVL VLKAKVQCEL NITAQLQEGE P GNCFPEWDGL ICWPRGTGK ISAVPCPPYI YDFNHKGVAE RHCNPNGTWD FMHSLNKTWA NYS'DCLRFLQ PDISIGKQEF FERLYVMYTV GYSISFGSLA VAILIIGYFR RLHCTRNYIH MHLFVSEMLR ATSI'FKDRV VHAHIGVKEL ESLIMQDDPQ NSIEATSVDK SQYIGCKIAV VMFIYFLATN YYWILVEGLY LHNLI'FAFF SDTKYLMGFI LIGWGFPAF VAAWAVARAT LADARCWELS AGDIKIYQA PILAAIGLNF ILFLNTVRL ATKIWE'NAV GHDRKQYRK LAKSTLVLVL VFGVHYIVFV CLPHSFTGLG WEIRMHCELF FNSFQGFVVS IICYCNGKEV QAEVKKMWSR WNLSDWKRT PPCGSRRCGS VLT'TVTHSTS SQSQVA'ASTR MVLISGKAAK IASRQPD'SHI TLPGYVWSNS EQDCLPHSEH EETKEDSGRQ GDDILMEKPS R'PMESNP'DTE GCQGETEDVL cggaggagacg cggccctagg cgggtggcgat ggggaccgac cggatcgac cggccctggc A gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg cagatgacgt catgactaaa gaggaaacaga tcttcctgct gcaccgtgct caggccaggt gcgaaaaacg gctcaaggag gtcctgcaga ggcagccag cataatggaa tcagacaagg gatggacatc tgctccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc tgaggaggac aaggaggcac ccactggcag caggtagcga gggcgccct gtctgccgga atgggaccac atcctgtgct ggcgctggg ggcaccaggt gagggtgggtg ctgtgccctg tcgggactac attatgact tcaatcaca agcccatgcc taccagct gtgaccgcaa tggcagctgg gagctgtgc ctgggcacaa caggacgtgg gccaa'ctaca gcgagtgtgt caaat'ttctc accaatgaga ctctgtaacg ggaggtgttt gaccgcctgg gcatgattta cacgtgggc tactccgtgt cctggcgctc cctaccgta gctgtgctca tcctggccta cttaggcgg ctgcactga cgcgcaacta catcacatg cacctgttcc t'gtcctcat gtgcgcgcc gtgagcatc t'cgtcaaggag cgtgtgtctc tacttggcg ccacgcttga tgaggctgag cgctcaccg aggaggagct gcgcgccatc gccagcgcg cccgcgcgc tgccaccgcc gctgcggct acgcgggctg cagggtgggt gtgaccttct tccttactt cctggccacc aactactact ggattctggt ggaggggctg tacctgcaca gcctcatctt </p>	Homo sapiens
228	3640	Parathyroid Hormone Receptor 1 (PTH1)	NM_000316	<p> cggaggagacg cggccctagg cgggtggcgat ggggaccgac cggatcgac cggccctggc A gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg cagatgacgt catgactaaa gaggaaacaga tcttcctgct gcaccgtgct caggccaggt gcgaaaaacg gctcaaggag gtcctgcaga ggcagccag cataatggaa tcagacaagg gatggacatc tgctccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc tgaggaggac aaggaggcac ccactggcag caggtagcga gggcgccct gtctgccgga atgggaccac atcctgtgct ggcgctggg ggcaccaggt gagggtgggtg ctgtgccctg tcgggactac attatgact tcaatcaca agcccatgcc taccagct gtgaccgcaa tggcagctgg gagctgtgc ctgggcacaa caggacgtgg gccaa'ctaca gcgagtgtgt caaat'ttctc accaatgaga ctctgtaacg ggaggtgttt gaccgcctgg gcatgattta cacgtgggc tactccgtgt cctggcgctc cctaccgta gctgtgctca tcctggccta cttaggcgg ctgcactga cgcgcaacta catcacatg cacctgttcc t'gtcctcat gtgcgcgcc gtgagcatc t'cgtcaaggag cgtgtgtctc tacttggcg ccacgcttga tgaggctgag cgctcaccg aggaggagct gcgcgccatc gccagcgcg cccgcgcgc tgccaccgcc gctgcggct acgcgggctg cagggtgggt gtgaccttct tccttactt cctggccacc aactactact ggattctggt ggaggggctg tacctgcaca gcctcatctt </p>	Homo sapiens

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	catggccttc ttctcagaga agaagtacct gtggggcttc acagtctctg gctggggtct gcccgtgtc ttctgggtcgt gtgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agctccggga acaaaaagt gatcatccag gtgcccaccc agtgcctccat tgtgtcaac ttcatcctct tcataatat cgtcgggtg ctgcccacca agtgcggga gaccaacgcc ggccggtgtg acacacgga cagtagcttg agctgtctca aatccacgt ggtgtcatg cccctctttg gcgtccacta cattgtcttc atggccacac catacacga ggtctcagg acgctctggc aagtccagat gcactatgag atgctcttca actccttcca gggattttt gtgcgaatca tatactgtt ctgcaatggc gaggatcaag ctgagatcaa gaaatcttg agccgtgga cactggcact ggacttcaag cgaaggcac gcagcgggag cagcagctat agctacggcc ccattgtgtc ccacacaagt gtgaccaatg tcggccccc tgtgggactc ggccctggccc tcagccccc cctactgcc actgccacca ccaacggcca ccctcagctg cctggccatg ccaagccagg gacccagcc ctggagacc tcgagaccac accacctgcc atggtgtct ccaaggacga tgggttctct aacggtcct gctcaggcct ggacgaggag gctctgggc ctgagcggc acctgccctg ctacaggaa agtgggagac agtcatgtga ccaggcgtg gggcctggac ctgctgacat agtggatgga cagatggacc aaaagatggg tgggtgaatg atttccact caggcctgg ggccaagagg aaaaacaggg aaaaaagaa aaaaaaga aaaaggaa	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	VMTKEEQIFL LHRQAQCEK RLKEVLQRP P SEEDKEAPTG SRYGRPCLP EWDHILCWPL NGSWELVPGH NRTWANYSEC VKFLTNETRE YIHMHLFSF MLRAVSIFVK PATAAAGYAG CRVATFFFLY FLATNYIWL SRVATLAN TG CWDLSGNNK QOYRKLLKST LVLMPLFGVH FCNGEVQAEI KKSWSRWTLA RVGLGLPLSP RLLPTATNG HPQLPGHAKP LDEEASGPER PPALLOEWE TVM agccacagaga cacattggg ctgacctgcc gctgctgtca gtgggaggcc agtgggtctg A gccaagaagt gtcattggctg gtgtcgtgca cgtttccctg gctgctcact gcggggcctg tccgtgggc cggggcagac tccgcaagg acgcgagcc tgcaagtccg cggcccagag acacattggg gctgacctgc cgtgctgtc agtgggaggc cagtgtgtg gccaagaag tgtcatggct ggtgtcgtgc acgttccct gctgctctc ctccctgctc ctatggccc tgccatgcat tctgactgca tcttcaagaa ggagcaagcc atgtgcctgg agaagatcca gaggggccaat gagctgatgg gcttcaatga tcccttcca ggctgtcctg ggatgtggga caacatcacg tgttggaagc ccgccatgt ggtgtgagatg gtccctgtca gctgccctga gctcttccga atcttcaacc cagaccaagt ctgggagacc gaaaccaatg gagagtctga ttttggtgac agtaactcct tagatctctc agacatggga gtggtgagcc ggaactgcac ggaggtatggc tggctgggac ccttccctca tctcttgat gctgtgggt ttgatgaata tgaatctgag actggggacc aggattatta ctacctgca gtgaaggccc tctacacggt tggctacagc acatccctcg tcacctcac cactgccctt gtcattcctt gtcgcttccg gaagtgcac tgcacacgca acttcatcca catgaacctg tttgtgtcgt tcatgctgag	Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	<p> ggcgtatctcc gtcttcatca aagactggat tctgtatgcg gagcaggaca gcaaccactg cttcatctcc actgtggaat gtaagccgt catggttttc ttccactact gtgtgtgttc caactacttc tggctgttca tcgaggccct gtacctcttc actctgctgg tggagacctt cttccctgaa aggagatact tctactgga caccatctt ggctggggga cccaactgtt gtgtgtgaca gtgtgggcta cgtgagact ctactttgat gacacaggct gctgggatat gaatgacagc acagctctgt ggtgggtgat caaagccct gtggttggct ctatctgggt taactttgtg cttttattg gcattatcgt catcctgtg cagaaacttc agtctccaga catgggaggg aatgagtcca gcattactt gcgactggcc cggctccacc tgctgctcat ccactattc ggaatccact acacagtatt tgcctctcc caagagaatg tcagcaaaaag ggaagactc gtgtttgagc tggggtggg ctctctccag ggcctttgtg tggctgttct ctactgtttt ctgaatggtg aggtacaagc ggagatcaag cgaataatggc gaagctggaa ggtgaaccgt tacttcgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg ggtgaatggg ggcaccagc tctccatctt gagcaagagc agctcccaaa tccgcatgtc tggcctccct gctgacaatc tggccacctg agccatgtct cctt </p>	Homo sapiens
232	3844	Apelin Receptor	NM_005161	<p> VHVSVLSLA AHGACPWGR GRLRKGRAC KSAAQRHIGA DLPLLSVGGQ WCWPRSVMAG P VHVSVLSLALL LLPMAPMHS DCIFKKEQAM CLEKIQRANE LMGFNDSSPG CPGMWDNITC WKPAHVGEML LVSCPELFRI FNPQVWETE TIGESDFGDS NSLDLSDMGV VSRNCTEDGW SEFPFHYFDA CGFDEYEST GDQDYIYLSV KALYTVGYST SLVTLTAMV ILCRFRKLHC TRNFIHMNLF VSEMLRAISV FIKDWILYAE QDSNHCFIST VECKAVMVEF HYCVVSNYFW LFIEGLYLFT LLVETFFPER RYFYWYTIIG WGTPTVCVTW WATRLYFDD TGCWDMNDST ALMWVIKGPV VGSIMVNEVL FIGIIVILVQ KQSPDMGNG ESSIYRLAR STLLLIPLFG IHYTVFAFSP ENVSKRERLV FELGLGSFQG FVVAPLYCFL NGEVQAEIKR KRSWKVNRV FAVDFKRRHP SLASSGVNGG TQLSILSKSS SQIRMSGLPA DNLAIT </p>	Homo sapiens
				<p> atggaggag gtggtgatt tgacaactac tatggggcag acaaccagtc tgaagtgtgag A tacacagact ggaatcctc gggggccctc atccctgcca tctacatgtt ggtcttctc ctggggacca cgggaaacgg tctggtgtc tggaccgtgt ttcggagcag ccgggagaaag aggcgctcag ctgatatctt cattgctagc ctggcggtgg ctgacctgac ctctgtggtg acgtgcccc tgtgggctac ctacacgtac cgggactatg actggccctt tgggacctc ttctgcaagc tcagcagcta cctcatctc gtcaacatgt acgccagct ctctgcctc accggcctca gcttcgaccg ctacctggcc atcgtgaggg cagtggccaa tgctcggtg aggctgcggg tcagcggggc cgtggccacg gcagttcttt ggtgctggc cgcctcctg gccatgcctg tcatgtgtt acgaccacc ggggacttgg agaaccacc taaggtgcag tgctacatgg actactccat ggtggccact gtgagctcag agtgggctg ggaggtgggc cttggggtct cgtccaccac cgtgggcttt gtggtgacct tcaccatcat gctgacctgt tacttcttca tcgcccaaac catcgctggc cacttccgca aggaacgcat cgagggcctg cggaagcggc gccggctgct cagcatcatc gtggtgctgg tggtagacct tgccctgtgc tggatgacct accactggt gaagacgtg gcagctgtg gcactggccc gacttgacct tgtgactttg acctcttct catgaacatc ttccctact gcacctgcat cagctacgtc aacagtggc tcaacctct cctctatgcc ttttctgacc ccgcttccg ccagggcctgc acctccatgc tctgctgtgg ccagagcagg tgcgggggag cctccacag cagcagtggg gagaagtcat ccagctactc ttcggggcac agccggggc ccggcccaaa catgggcaag </p>	Homo sapiens

233	3844	Apelin Receptor	NP_005152.1	ggtggagaac agatgcacga gaaatccatc ccctacagcc aggagaccct tgtggttgac tag	YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFW TLPLWATYTY RDLWDWPGTF FCKLSSYLIF VNMVASVFCL TGLSEFDRLA TVRPVANARL RLRVSGAVAT AVLVMLAALL AMPVMVLRTT GDLNENTKVQ CYMDYSMVAT VSSEWAVEVG LGVSTTGVF VVPFTIMLTC YFFIAQTIAG HFRKERIEGL RKRRLLSII VVLVVTFAIC WMPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLEYA FFDPRFRQAC TSMMLCCGQSR CAGTSHSSG EKSASYSSGH SQPGGPNMGK GGEQMHEKSI PYSQETLVVD	Homo sapiens
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	gaattcggca cgagtcaggg aagcagcccc ggcggccagc agggagctca ggacagagca A ggctccctgg gaagcctccg ggtgataggg gtgttccagc tgcggcgctc tgggggttca gagggggatc ttgaatgaac aatatgaatga actgctttct gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctccccaac agcctcgagt ggcctgcagt cacagggaac cctcaggaag acctccggg cagagaccag agggaaagccc atctctccag cagaactgct tggatttttc taccagggg ctacagggctc tgcaacaatg atagcagaag ctgatggcat ctagagatct aggtctgggac tagcacagca tcactttctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtcacctt ctgatggga ggctgacat agaattggag atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttagactcca ttgtggtttt ggaggactta tcccccttgg aagccagggt gaccaggatc ttccctgggtg tggctctacag catcgtctgc ttcctcggga ttctgggcaa tggctgggtg atcatcattg ccaccttcaa gatgaagaag acagtgaaca tggctgggtt cctcaacctg gcagtggcag atttccctgtt caacgtcttc ctcccaatcc atataccta tgcggccatg gactaccact ggggttttcgg gacagccatg tgcaagatca gcaacttctt tctcatccac aacatgttca ccagcgtctt cctgctgacc atcatcagct ctgacggctg catctctgtg ctctccctg tctgggtccca gaaccaccgc agcgttcgcc tggcttacat ggctgcatg gtcatctggg tcttggtttt ctctttgagt tccccatctc tegtcttccg ggacacagcc aacctgcag ggaaaaatata ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctggtgcca ctcaactccca aatggaccct gtggggtata gccggacat ggtggtgact gtcacccgct tctctgtggg ctctcctggtc ccagtcccta tcatcacagc ttgtacctc acctcgtgt gcaaaactgca gcgcaaccgc ctggccaaga ccaagaagcc ctccaagatt attgtgacca tcatcattac ctcttctctc tgctggtgcc cctaccacac actcaacctc cttagagctcc accacactgc catgctggc tctgtcttca gcctgggttt gccctggcc actgcccctg ccattggccaa cagctgcatg aaccctatc tgtatgtttt catgggtcag gacttcaaga agttcaaggt ggccctcttc tctgcctgg tcaatgctct aagtgaagat acaggccact ctctctaccc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaacccctca atggactctc tcaaccacag gacacccaag gatattgtct ctgaagatca aggcaagaac ctctttagca tccaccaatt ttactgtcat tttgcatggg atgaacagtg ttttatgctg ggaatctagg gcttggaacc cctttcttct agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg ctctttggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc	Homo sapiens	

2235	3845	Chemokine- Like Receptor 1 (CMKLR1)	NP_004063.1	2236	3846	Sphingolipid Receptor Edg1	NM_001400
MEDEDYNTSI	SYGDEYDPYL	DSIVLEDL	PLEARVTRIF	LVVVYSIVCF	LGILNGLVI	P	Homo sapiens
IIATFKMKKT	VNMVWFLNIA	VADFLFNVEL	PIHITYAAMD	YHWVFGTAMC	KISNFLLIHN		
MFTSVFLTLI	ISSDRGISVL	LPVWSQNHR	VRLAYMACMV	IWVLAFFLSS	PSLVFRDTAN		
IHGKISCENN	FSLSTPGSS	WPTHSQMDPV	GYSRHMVTV	TRFLCGFLVP	VLIITACYL		
IVCKLQRNRL	AKTKRPFKII	VTIIITFFLC	WCPYHTLNL	ELHHTAMP	GS VFSLGLPLAT		
ALAIANSNMN	PILYVFMGQD	FKFKVAFS	RLVNALSED	GHSSYP	SHRS FTKMSSMNER		
TSMNERETGM	L						
gtcggggggc	gcagcaagat	gcgaagcggag	ccgtacagat	ccggggctct	ccgaacgcaa	A	Homo sapiens
cttcgcccctg	cttgagcggag	gctgcgggtt	ccgagggccct	ctcagaccaa	ggaaaaagcta		
cacaaaaagc	ctggatcaact	catcgaacca	ccccctgaagc	cagtgaaggc	tctctcgccct		
cgcctcttag	cgttcgctcg	gagtagcgcc	accccggtt	ccctggggaca	cagggttggc		
accatggggc	ccaccagcgt	cccgctggtc	aaggccacc	gcagctcgg	ctctgactac		
gtcaactatg	atatcatcgt	ccggcattac	actacacag	gaaagctgaa	tatcagcggc		
gacaaaggaga	acagcattaa	actgacctcg	gtgggtgttc	tctcatcttg	ctgctttatc		
atctcggaga	acatctttgt	cttgctgacc	atttggaaa	ccaagaaatt	ccaccgacc		
atgtactatt	ttattggcaa	tctggccctc	tcagacctgt	tggcaggagt	agcctacaca		
gctaacctgc	tcttgcctgg	ggccaccacc	tacaagctca	ctcccgccca	gtggttttctg		
cgggaaggga	gtatgtttgt	ggccctgtca	gcctccgtgt	tcagtctcct	cgcctatgcc		
attgagcgct	atatcacaat	gctgaaaaatg	aaactccaca	acgggagcaa	taacttccgc		
ctcttctcgc	taatcagcgc	ctgtgggttc	atctccctca	tcctgggttg	cctgcctatc		
atgggctgga	tgcgtgtcag	tgcgtgtcc	agtcgtccca	ccgtgctgcc	gctctaccac		
aagcactata	tctcttctg	caccacggtc	ttcatctctg	tctgtctctc	catcgtcatt		
ctgtactgca	gaatctactc	cttggctcag	actcggagcc	gccgcctgac	gttccgcaag		
aacatttcca	agggcagcgc	cagctctgag	agtcgtctgg	cgtgctcaca	gaccgtaat		
atcgtcctga	gcgtcttcat	cgcctgctgg	gaaccgctct	tcactctgct	cctgctggat		
gtgggctgca	aggtgaagac	ctgtgacatc	ctcttcagag	cggagtactt	cctgggtgta		
gctgtgctca	actccggcac	caaccctatc	atttaccatc	tgaccaacaa	ggagatgcgt		
cggggccttca	tccggatcat	gtcctgctgc	aagtgcccg	gcgggagactc	tgctggcaca		
ttcaagcgac	ccatcatcgc	cggcatcggaa	ttcagccgca	gcaaatcggga	caattctctc		
cacccccaga	aagacgaagg	ggacaaccca	gagaccatta	tgctcttgg	aaacgtcaac		
tcttcttctc	agaactggaa	gctgtccacc	caccggaagc	gcctcttact	tggtcgctgg		
ccacccccagt	gtttggaaaa	aaatctctgg	gcttgcactg	ctgccaggga	ggagctgctg		
caagccagag	ggaggaagg	ggagaatacy	aacagcctgg	tggtgtcggg	tggtgtgtgg		
tagagttagt	tctgtgaaac	aatgcactgg	gaaggttgga	gatcaggtcc	cggcctggaa		
tatatattct	acccccctgg	agctttgatt	ttgcactgag	ccaaaaggct	agcattgtca		
agctcctaaa	gggttcat	ggccccctct	caaagactaa	tgtccccatg	tgaaagcgtc		
tctttgtctg	gagctttgag	gagatgtttt	cttcaacttt	agtttcaaac	ccaagttagt		
gtgtgcactt	ctgcttcttt	agggatgccc	tgatcatccc	acaccccc	ctcccttccc		
ttcatacccc	tcctcaacgt	tcttttactt	tatactttaa	ctacctgaga	gttatcagag		
ctgggggtgtg	ggaatgatgc	atcatctata	gcaaataggc	tatgttagt	acgtaggctg		
tggggaagatg	aagatgggtt	ggaggtgtaa	aacaatgtcc	ttcgctgagg	ccaaagtctc		

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatccggttt ttggaattt ggttgaagtc actttgattt ctttaaaaaa catctttttca atgaaatgtg ttaccatttc atatccattg aagccgaaat ctgcataaag aagcccaactt tatctaaatg atattagcca ggaatccttg tgctctagga gaaacagaca agcaaaaaca agtgaaaacc gaatggatta acttttgcaa accaaggag atttcttagc aatgagtcct aacaaatag acatccgtct tcccactttt gttgagatgtt tatttcagaa tcttggtgta ttcatttcaa gcaacaacat gttgtatttt gttgtgttaa agtacttttt cttgattttt gaatgtattt gtttcaggaa gaagtattt tatggatttt tctaaccctg gttaactttt ctagaatcca cctctcttg cctttagca ttactttaac tggtaggaa cgccagaact ttttagtcca gctattcatt agatagtaat tgaagatag tataaatatt acaaagaata aaatatatt actgtctctt tagtatggtt tcaagtgcaa ttaaacaggag agatgtcttg tttttttaa aagaatagta ttaataaggt tctgactttt tgtggatcat tttgcacata gctttatcaa cttttaaaca ttaataaact gatttttta aag MGTSVPLVK AHRSSVSDYV NYDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P LENIFVLLTI WKTKKFRPM YYFIGNLALS DLIAGVAYTA NLLSGATTY KLTPAQWFLR EGSMFVALSA SVFSLAIAI ERYITMLMK LHNGSNFRL FLLISACWVI SLILGGLPIM GWNCSIALSS CSTVLPYHK HYILFCTTF TLLLSIVIL YCRIYSLVRT RSRRLTFRKN ISKASRSSEK SLALKTVII VLSVFIACWA PLFILLLLDV GCKVKTCIDL FRAEYFLVLA VLNSGTNP II YTLTNKEMRR AFIRIMSCCK CPSGDSAGKF KRPIIAGMEF SRKSDNSSH PQKDEGDNPE TIMSSGNVNS SS atggcaactg ccctccgccc gcgtctccag ccggtgcggg ggaacgagac cctgcgggag A cattaccagt acgtgggaa gttggcggc aggttgaaag aggcctccga gggcagcacg ctcaccaccg tgcctctctt ggtcatctgc agctctatgc tcttgagaa cctgatggtt ttgattgcca tctggaaaaa caataaattt cacaaccgca tgtacttttt cattggcaac ctggctctct gcgacctgct ggccggcctc gttacaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggaggcgag tatgtctgtg gccttgggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaaatg atcaaaaatga ggccttacga cgccaacaag aggcaccgag tcttctctct gatcgggatg tgcctggctca ttgccttcac gctggcgccc ctgccatttc tgggctggaa ctgcctgcac aatctccctg actgctctac catcctgccc ctactactca agaagtacat tgccttctgc atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgacg catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctgcgga ccgtggtgat tgtggtgagc ggttcacatg gcccacact cttcaaggct atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gcccactct cttcaaggct cagtgttca tcgtgtggc tgtgtcaac tccgccatga acccggtcat ctacacgctg gccagcaagg agatcgggcg ggccttcttc cgtctggtct gcaactgctt ggtcagggga cggggggccc gcgctcacc catccagcct gcgtcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaag acctgcccc caccagcccc tcactctgca tcatggacaa gaacgcagca cttcagaagt ggaatctctg caactga tatalpprlq pvrnetlre hyqyvgklag rlkeasegst lttvlfvlic sfvlenlmv P LIAIWNKNKF HNRMYFFIGN LALCDLLAGI AYKVNILMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLTM IKMRPYDANK RHRVFLIGM CWLIAFTLGA LPILGNCLH	Homo sapiens
238	3847	Sphingolipid NP_005226 Receptor Edg3	atggcaactg ccctccgccc gcgtctccag ccggtgcggg ggaacgagac cctgcgggag A cattaccagt acgtgggaa gttggcggc aggttgaaag aggcctccga gggcagcacg ctcaccaccg tgcctctctt ggtcatctgc agctctatgc tcttgagaa cctgatggtt ttgattgcca tctggaaaaa caataaattt cacaaccgca tgtacttttt cattggcaac ctggctctct gcgacctgct ggccggcctc gttacaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggaggcgag tatgtctgtg gccttgggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaaatg atcaaaaatga ggccttacga cgccaacaag aggcaccgag tcttctctct gatcgggatg tgcctggctca ttgccttcac gctggcgccc ctgccatttc tgggctggaa ctgcctgcac aatctccctg actgctctac catcctgccc ctactactca agaagtacat tgccttctgc atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgacg catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctgcgga ccgtggtgat tgtggtgagc ggttcacatg gcccactct cttcaaggct atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gcccactct cttcaaggct cagtgttca tcgtgtggc tgtgtcaac tccgccatga acccggtcat ctacacgctg gccagcaagg agatcgggcg ggccttcttc cgtctggtct gcaactgctt ggtcagggga cggggggccc gcgctcacc catccagcct gcgtcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaag acctgcccc caccagcccc tcactctgca tcatggacaa gaacgcagca cttcagaagt ggaatctctg caactga tatalpprlq pvrnetlre hyqyvgklag rlkeasegst lttvlfvlic sfvlenlmv P LIAIWNKNKF HNRMYFFIGN LALCDLLAGI AYKVNILMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLTM IKMRPYDANK RHRVFLIGM CWLIAFTLGA LPILGNCLH	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3	atggcaactg ccctccgccc gcgtctccag ccggtgcggg ggaacgagac cctgcgggag A cattaccagt acgtgggaa gttggcggc aggttgaaag aggcctccga gggcagcacg ctcaccaccg tgcctctctt ggtcatctgc agctctatgc tcttgagaa cctgatggtt ttgattgcca tctggaaaaa caataaattt cacaaccgca tgtacttttt cattggcaac ctggctctct gcgacctgct ggccggcctc gttacaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggaggcgag tatgtctgtg gccttgggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaaatg atcaaaaatga ggccttacga cgccaacaag aggcaccgag tcttctctct gatcgggatg tgcctggctca ttgccttcac gctggcgccc ctgccatttc tgggctggaa ctgcctgcac aatctccctg actgctctac catcctgccc ctactactca agaagtacat tgccttctgc atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgacg catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctgcgga ccgtggtgat tgtggtgagc ggttcacatg gcccactct cttcaaggct atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gcccactct cttcaaggct cagtgttca tcgtgtggc tgtgtcaac tccgccatga acccggtcat ctacacgctg gccagcaagg agatcgggcg ggccttcttc cgtctggtct gcaactgctt ggtcagggga cggggggccc gcgctcacc catccagcct gcgtcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaag acctgcccc caccagcccc tcactctgca tcatggacaa gaacgcagca cttcagaagt ggaatctctg caactga tatalpprlq pvrnetlre hyqyvgklag rlkeasegst lttvlfvlic sfvlenlmv P LIAIWNKNKF HNRMYFFIGN LALCDLLAGI AYKVNILMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLTM IKMRPYDANK RHRVFLIGM CWLIAFTLGA LPILGNCLH	Homo sapiens

240	3848	C-C Chemokine Receptor 9	NM_006641	<p> NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHHNSERSMA LLRTVIVVS VFIACWSPLF ILFLIDVACR VQACPILEKA QWFIVLAVLN SANMPVIYTL ASKEMRRAFF RLVCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSPK VKEDLPHTDP SSCIMDKNAA LQNGIFCN gcccctcatc ccaggcagag agcaaccacag ctctttcccc agacactgag agctgggtggt A gcctgctgtc ccaggcagag ttgcctgcgc ctccacaagc cctattccta acatggctga tgactatggc tctgaatcca catcttccat ggaagactac gttaaactca acttcactga cttctactgt gagaaaaaca atgtcaggca gtttgcgagc catttccctc cacccttgta ctggctcgtg ttcactcgtg gtgccttggt caacagctctt gttatcccttg tctactggta ctgcacaaaga gtgaagacca tgaccgacat gttccttttg aatttgcaa ttgctgacct cctctttctt gtcactcttc ccttctgggc cattgctgct gctgaccagt ggaagtcca gaccttcagt tgcaaggtgg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatacagc tggacaggtg cattgccatt gccaggcca tgagagcaca tacttggagg gagaaaaggc ttttgtacag caaaatggtt tgctttacca tctgggtatt ggcagctgct ctctgcatcc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc accatggttt accctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcattcttg ggttcttctt tcccttcttg gtcattgctt gctgctatac catcatcatt cacacctga tacaagccaa gaagtcttcc aagcacaaaag cctaaaagt gaccatcact gtcctgacct tctttgtctt gtctcagttt cctacaact gcattttgtt ggtgcagacc attgacgctt atgccatgtt catctccaac tgtgccgttt ccaccaact tgacatctgc ttcagggtca ccagaccat cgcctcttc cacagtgtcc tgaacctgt tctctatgtt ttgtgggtg agagattccg ccgggatctc gtgaaaaccc tgaagaactt gggttgcatc agccaggccc agtgggtttc atttacaagg agagaggaa gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ccttgagggg tcttctctga ggtgcatggt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggtg aatctgaact atatgattac ttgtagtcag aatttgccaa agcaaatatt tcaaaatcaa ctgactagtg caggaggctg ttgattggct cttgactgtg atgcccgcga ttctcaagg aggaactaagg accggcactg tgagacaccc tggctttgcc actgcgcgga gcaatctcag cgctgctctt ggaggagccc ttggattttc tccatgcact gtgaacttct gtggttctcag tctcatgctt gcctctcca aaaggggaca cagaagcact ggctgctgct acagaccgca aaagcagaaa gtttcgtgaa aatgtccatc ttgtggaaat ttctacct gctctgagc ctgataaccc atgccaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt ctctgttctt ccttgttctg ttctgggcca gtgaaggctc ttgttctgat ttgaaacga tctgcaggtc ttgccagtga acccttgagc aactgaccac acccaagg catccaaagt ctgttggctt ccaatccatt tctgtgtcct gctggagggt ttaacctaga caaggattcc gcttattcct tggtatgggt acagtgtctc tccatggcct gagcaggag attataacag ctgggttcgc aggagccagc cttggccctg ttgtaggctt ttgtgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaaaatgggt ggttcttttg gccctcttct tctgagggc cactttattc tgaggaaatc agtgagcaga tatgggcagc agccaggtag ggcaaggggg tgaagcgcag gccttgctgg aaggctattt acttccatgc ttctcctttt ctactctat </p>	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	MADYDGESEST YWYCTRVKTM CVLLIMCISV SGIAICTMWY LKVTITVLTV NPVLYVFVGE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSEDESTLKS FVLSQFPYNC RFRRLVKTLL	FTDFYCEKNN ADLLEFLVLP RAHTWREKRL AVLTCLKVILG ILLVQITIDAY KNLGCISQAQ	VRQFASHFLP FWAIAAADQW LYSKMVCFTI FELPFVVMAC AMFISNCAVS WVSFTRREGS	PLYWLVFIVG KEQTFMCKV WVLAALCIP CYTIIHTLI TNIDICFQVT LKLSMMLLET	ALGNSLVILV NSMYKMFYS EILYSQIKEE QAKKSSKHKA QTIAFFHSL TSGALSLS	P Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tattactctc tcctctggtg tggttcacgg attgaggatt ttccactggc atgtttgcca catcctgtct atctggcttt ttcaataaact atcaggcacc acaatgagta tcagtaggc ccttatcacc gtgatgcagg cccatccttt gagatactca aggaactcag MEDLEETLFE	tgaggagaac tggaggactga tatattgttt ggctcaagtg tcaattttct cctttggcat gtgttttttt tatctcatcg tggcttctct atactctttg atgttctgac tttgctactt attcttgga tggttagcat ctggaatccc atgtcctaact agtcacact aaaccaagaa EFENYSYDLD	attatttgaa tggaggagg ggcttttgtt gaagaagaca tctctttctg ctggctgtgc cctgacagtg gcatcgaaac aattggcgtt ctataaacaat ttgggtgaaa gtgtctcact aattctggtt tggttagctc tgggagctc cctctccact tagtaagaag gtgggaagtc tctgtgtctc atctgtgtg tggttagctc accattcacc ggtttggcat ttccaagctc gcttccgggtc agctgttctg ctggaacacag ctcaataa	actattccta gaagtccagc ctgggaattc gtcaccactc ccctgtaca aaagccaatt atcagcctgg ctcaagaact cctgcctgt tttcagaagc gttatcattg ttcaaggtga gtggtgtgga gtggtgtggt accaatagcta tccccaccat tctcctgaac gcttccgggtc ctcagttgct tgaacagctc ctcaataa	tgacctagac tcaactgggtc catcgtcatt caatctagcc ggccatgaat ccttcactgc ccacttatat cctctgattg cattatatc cactgtggag ccttcactttg ccttttgcta	A Homo sapiens	
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	WFTGLKWKKT MFASVFFLTV FNNHTLCYNN SSRHFWTILV PILYVLISKK	VTTLWFLNLA ISLDHYIHLI FQKHDPDLTL VVVAFFVVCWT FQARFRSSVA	IADFIFLLFL HPVLSHRHRT IRHHVLTWVK PYHLFSIWEL EILKYTLWEV	PLYISYVAMN LKNLSLIVIF FIIGYLFPLL TIHNSYSYSH SCSGTVSEQL	FHWPGFWLW IWLIALSLIGG TMSICYLCI VMQAGIPLST RNSETKNLCL	KANSFTAQLN PALYFRDTVE FKVKKRTVLI GLAFLNSCLN LETAQ	P Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggcctcat gcggtcacaa ggcgcgagc gggctgacg ctggtgctgg aacctggcct	cgaccactcg ctcccgccaa ctccagccgt tgctgctcta tgatcgcgcg tgctcgacgt	gggccccagg ccagagcgca cagcccttc cagcgtcgtg gggtgcgcgg gctcatgtgc	gtttctgact gaggcctcgg cagagcctgc gtggtcgtgg ctgcacaacg accgcctgcg	tatttcttgg cgggcaacgg agctggtgca ggctggtggg tgacgaactt tgccgctcac	gctgccgcgcg gtcgggtggct tcagctgaag caactgcctg cctcatcgcc gctggcctat	A Homo sapiens

245	3850	G Protein- Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gcttctgagc cagcgggctg ggtgttcggc gggggcctgt gccacctggt cttcttctctg cagccggtca ccgtctatgt gtcgtgttcc acgctcacca ccctgcagat ggaccgctac gtcgtgctgg tgcacccgct gagggggcgc atctcgtgc gcctcagcgc ctacgctgtg ctggccatct gggcgtgtgc cgcgtgctg tgcgtgctc cgcctgca cactatcac gtggagctca agccgacga cgtgcgctc tgcgagagt tctggggctc ccaggagcgc cagcgccagc tctacgctg ggggctgctg ctggtcacct acctgtccc tctgctggtc atctcctgt cttacgtccg ggtgtcagt aagctccgca accgctggt gccgggctgc gtgaccaga gccaggccga ctgggacgc gctcggcgc ggcgcacct ctgcttgcgtg gtggtggtcg tgggtggtgt cgcgtctgc tggctgcgc tgcacgtctt caacctgctg cgggacctg accccacgc catcgacct tacgctttg ggctggtgca gctgctctgc cactggctcg ccatgagttc ggcctgctac aaccccttca tctacgctg gctgcacgac agctcccg aggagctgc caactgttg gtcgcttggc ccgcgaagt agcccccat ggccagaata tgaccgtcag cgtggtcctc tga</p>	Homo sapiens
				<p>GLIVLLYSV VVGLVGNCL LVLVIARVR LHNVTNFIG NLALSDVLMC TACVPLTIAY AFEPRGWVFG GGLCHLVFFL QPVTVVSVF TLTTIAVDY VVLVHPLRRR ISLRSAYAV LAIWALSAVL ALPAAVHTYH VELKPHDVRL CEEFWGQER QRQLYAWGLL LVTYLLPLLV ILLSYVRVSV KLRNRVPGC VTQSQADWDR ARRRTEFCLL VVVVVFAVC WLPPLHVFNL RDLDPHAIDP YAFGLVQLLC HWLAMSSACY NPFIYAWLHD SFREELRKLL VAWPRKIAPH GQNMTVSVVI</p>	
246	3851	G Protein- Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caatttaagc gggctgcctc gggattattt agatgcgcct A gctcgggaga acatctcggc tctgtctcc tcccgggttc tcccgctaga gccagagcct gagctcgtag tcaacccctg ggacattgc ttgtgtacct cgggaacctt catctcctgt gaaaatgcca ttgtgtctt tatcatctc cacaacccca gctcgcgagc acccatgttc ctgctaatag gcagcctggc tcttgacagc ctgctggcgc gcatggact catcaccaat ttgttttttg cctacctgct tcagtcagaa gccaccaagc tggtcacgat cggcctcatt gtcgccctct tctctgcctc tgtctgcagc ttgtgtgcta tcaactgttga ccgctacctc tcaactgtact acgctctgac gtaccattcg gagaggacgc tcaactttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctggggctgc tgcctgtcat gggctgggac tgctcccgag acgagtcacac ctgcagcgtg ttcagaccgc tcaccaagaa caacgcggcc atcctctcgg tctccttctt cttcatgttt gcgctcatgc ttcagctcta catccagatc tgtaagattg tgatgaggca cgcctcatcag atagccctgc agaccactt cctgggcacg tcgcactatg tgaccacccg gaaaggggtc tccacctgg ctatcatcct ggggacgttt gtgcttctgt ggatgccttt caccctctat tcttgatag cggattacac ctaccctcc atctatacct acgccaacct cctgcccgc accataaatt ccatcatcaa cctgtcata tatgctttca gaaaccaaga gatccagaaa gcgctctgtc tcatgtgtg cggctgcac ccgtccagtc tcgcccagag agcgcgctcg ccagtgatg tgtag</p>	Homo sapiens
247	3851	G Protein- Coupled Receptor GPR12	NP_005279.1	<p>ENAIIVLIIF GLNPSLRPMF LLIGSLALAD LLAGIGLITN FVFAYLLQSE ATKLVITGLI VASFSASVCS LLAITVDRYL SLYYALTYHS ERTVTFTYVM LVMLWGTSC LGLLPVMGMN CLRDESTCSV VRPLTKNNA ILSVSFLEMF AIMLQLYIQI CKIVMRHAHQ IALQHHFLAT</p>	Homo sapiens

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAILLGTG AACWMPETLY SLIADYTPS IYTYATLLPA TYNSINPVI YAFRNQEIQK ALCLICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcga cgccaggcct tcaccatgga tcagttccct A gaatcagatga cagaaaactt tgagtacgat gatttggtct aggcctgtta tattggggac atcgtggtct ttgggactgt gttcctgtcc atattctact cgtcatcttt tgcattggc ctggtgggaa atttgttgtt agtgtttgct ctcaccaaca gcaagaagcc caagagtgtc accgacattt acctcctgaa cctggccttg tctgatctgc tgtttgtagc caatttgccc ttctggactc actatttgat aaatgaaaag ggctccaca atgccatgtg caaattcaat accgctctct tcttcactgg ctttttttga agcatattct tcatcacctg catcagcatt gataggatcc tggccatcgt cctggccgcc aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca gcagccattt tgggtggcagc acccagttc atgttcacaa agcagaaaaga aaatgaatgc cttggtgact acccaggtt ccttcaggaa atctggcccg tgcctcgcga ttgtggaaca aattttcttg gcttctact cccctgtctc attatgagtt attgtactt cagaatcatc cagacgtgtg ttctctgcaa gaaccacaag aaagccaaag ccattaaact gatcctctg gtggtcatcg tgtttttcct ctctcggaca ccctacaaag ttatgatttt cctggagacg cttaaagctct atgacttctt tcccagttgt gacatgagga aggatctgag gctggccctc agtgtgactg agacgggttg attagccat tgttgccctga atcctctcat ctatgcattt gctggggaga agttcagaag ataccttac cacctgtatg ggaatgcct ggctgtcctg tgtgggcgtc cagtccacgt tgattttctc tcacttgaat cacaaggag caggcatgga agtgttctga gcagcaattt tacttaccac acgagtgatg gagatgcatt gctcctctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtgagg aagattttttg ttgtttattc ttacaggcac aaaatgatgg acccaatgca cacaaaaaaa ccttagagtg ttgttgagaa ttgtgctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gagtagacat ttctcttact gcaaatgtca tcagaacttt ttggttttga gatgacaaaa attcaactca gactagttaa gttaaaatgag ggtggtgaat attgttcata ttgtggcaca agcaaaaaag gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagctta MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALSDLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMNN RTVQHGVTTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEITNFI GF LLPLLIMSYC YFRIIQTLS CKNHKKAKAI KLILLVVIVE FLFWTPYNVM IFLETILLYD FFPSCDMRKD LRLALSVTET VAFSHCCLNP LIYAFAGEKE RRLYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccacag aagaaacttc agtttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctctg tcttctctcc agtcttttac acagctgtgt tcctgactgg agtgcgtggg aaccttgctt tcattgctgc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggtcgc ctctgacttc atthttcttg tcacattgoc tctctgggtg tataaagaag catctctagg actgtggagg acgggctctc tcctgtgcaa agggagctcc tacatgatct ccgtcaatat gcactgcagt gtcctcctgc tcacttgcat gagtgttgac cgctacctgg ccattgtgtg gccagtcgta tcacaggaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1		Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290		Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtctc cagctggccc tggcgaacct cttgtgtggc ctgactctgc ccttcgaggc</p> <p>agcaggggct cttcagggct ggagttctgg aagtgcacc tgccgcacca tctctggcct</p> <p>ctactcggcc tccttcacg cgggttctct cttctctggc tgtatcagcg ccgaccgcta</p> <p>cgtggccatc gcgagcgc tccagccgg accgcggccc tccactcccc gcgcgcaca</p> <p>cttggctctc gtcactgtgt ggtgtgtgtc cctgtctctg gcgctgcctg cgtgtctctt</p> <p>cagccaggat ggccagcggg aaggccaacg acgtgtgc ctcactcttc ccgagggctt</p> <p>cacgcagacg gtgaaggggg cgagcgcgt ggccaggtg gccctgggct tcgcgtgccc</p> <p>gctgggcgtc atggtagcct gctacgcgt tctgggcgc acgtgtctgg ccgccagggg</p> <p>gccgagcgc cggcgtgcgc tgcgcgtgt ggtgtgtctg gtggcggcct tcgtgtgtct</p> <p>gcagctgccc taagcctcgc cctgtgtct gatactgccc gatctactgg ctgcgcgca</p> <p>gcggagctgc cctgccagca aacgcaagga tgtgcactg ctggtgacca gggccttggc</p> <p>cctcgcctgc tgtggcctca atccgttct ctacgccttc ctgggcctgc gcttcgcaca</p> <p>ggacctgagg agctgtctac ggggtgggag ctgcctcca gggcctcaac ccgcgcggg</p> <p>ctgccccgc cggccccgc ttcttctctg ctacgtccc acgagagccc acagtctctc</p> <p>ctgggacaac taggctgcg aatctagag agggggcagg ctgagggctc tgggaaaagg</p> <p>gagtaggtg gggaaactg agaaagagg agggacctaa agggactacc tctgtgcctt</p> <p>gccacattaa attgataaca tggaaatgaa aaaaaaaaaa aaaa</p>	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgccctctg tgtctcagc ggggccctcg gccggggcag tccccaatgc caccgagtg A</p> <p>acaacagtgc ggaccaatgc cagcgggctg gaggtgcccc tgttccacct gtttgccccg</p> <p>ctggacgagg agctgeatgg cacttccca gccctgtgcg tggcgtgat ggcgtgcac</p> <p>ggagccatct tcctggcagg gctggtgtc ctcagtcac tacaccatca acctggtggt gaccgatca</p> <p>cgcacccggg ccaagacacc cagcgccttc cagcgccttc gctgtgtact acggcgccag gggctgcctg</p> <p>cgctgtgctt tccgcacgt cctcggttac ttcctcaaca tgcactgctc cctctcttc</p> <p>ctcacctgca tctcgttga ccgtacctg gccactgtgc ggcccgaagc tcccccgcc</p> <p>tgcggccagc ctgcctgtgc caggccctg tggccttcg tgtggctggc cgccggtgccc</p> <p>gtcacctgt cgggtcgtgg cgtgacagc agcggccccct gctgcgtgt ctttgcgctg</p> <p>actgtcctgg agttcctgct gccctgctg gctatcagcg tgtttaccgg ccgcatcatg</p> <p>tgtgcaactgt cgcggccggg tctgtctcc caggggtgcg agcgcggctg gcgggcccag</p> <p>cagctcctgc tcacgggtgct catcatctt ctgctctgct tcacgcctt ccacgcccc</p> <p>caagtggccg tggcgtgtg gccgacatg ccacaccaca cgagcctcgt ggtctaccac</p> <p>gtggccgtga cctcagcag cctcaacagc tgcattggacc ccacgtgcta ctgcttcgtc</p> <p>accagtggct tccaggccac cgtccgagg cctctggcc agcacggaga gcgtgagccc</p> <p>agcagcgggtg acgtgggtcag catgcacagg agtcccaagg gctcaggccg tcatcacatc</p>	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcaagc cctcacceag gccctggcta atggggccccg ggcttag	Homo sapiens
				GAIFLAGLVL NGLALVFFCC RTRAKTPSVI YTNLNVTDL LVGLSLPTRF AVYVGARGCL	
				RCAPPHVLGY FLNMHCSILF LTCICVDRYL AIVRPEAPAA CROPACARAV CAFVWLAAAGA	
				VTLSVLGVTG LRVCCRVFAL TVLEFLPLL VISVFTGRIM CALSRPGLLH QGRQRRVRAM	
				QLLLTVLIIF LVCFTPFHAR QVAVALWPDH PHHTSLVYH VAVTSLSSLN CMDPIVYCFV	
260	3858	G Protein- Coupled Receptor GPR21	NM_005294	TSGFQATVRG LFGQHGEREP SSGDVVSMHR SSKGSGRHHI LSAGPHALTQ ALANGPEA	Homo sapiens
				atgaactcca ccttgatgg taatcagagc agccaccctt ttgcctctt ggcatttggc A	
				tatttggaaa ctgtcaattt ttgccttttg gaagtattga ttattgtctt tctaactgta	
				ttgattattt ctggcaacat catttgtatt ttgtatttc acttgcacc ttgtttgaac	
				catcacacta caagtattt tatccagact atggcatatg ctgacctttt tgttgggggtg	
				agctgcgtgg tcccttcttt atcactctc catcaccccc ttccagtaga ggagtccttg	
				acttgccaga tatttggttt tgtagtatca gttctgaaga gcttctccat ggccttcttg	
				gctgtatca gcatgatatg atacattgcc attactaaac cttaaaccta taatactctg	
				gttacacctt ggagactacg cctgtgtatt ttccctgattt ggcctatactc gacctgggtc	
				ttcctgcctt cctttttcca ctggggcaaa cctggatatc atggagatgt gtttcagttg	
				tgtgcggagt cctggcacac cgactcctac ttccacctgt tcactgtgat gatgttat	
				gccccagcag ccttattgt ctgcttcacc tatttcaaca tcttcgcac ctgccaacag	
				cacacaaagg atatacagca aaggcaagcc cgcttcagca gccagagtgg ggagactggg	
				gaagtgcagg cctgtcctga taagcgtat gccatggctc tgtttcgaat cactagtgt	
				ttttacatcc tctggttgcc atatactac tacttctgt tggaaagctc cactggccac	
				agcaaccgct tcgcatcctt cttgaccacc tggcttgcta ttgtaacag ttcttgcaac	
				tgtgtaattt atagtcttc caacagtgt ttccaaagag gactaaagcg cctctcaggg	
				gctatgtgta cttcttgctc aagtcagact acagccaacg acccttacac agttagaagc	
				aaaggccctc ttaatggatg tcatatctga	
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1	MNSTLDGNQS SHPFCLLAFG YLETNFCLL EVLIIVFLTV LIISGNIIV FVFHCAPLN P	Homo sapiens
				HHTSYFIQT MAYADLFVGV SCVPSLSLL HHPLPVEESL TCQIFGVVS VLKSVSMASL	
				ACISIDRYIA ITKPLTYNTL VTPWRLRLCI FLIWLYSTLV FLPSFFHWGK PGYHGDVFWQ	
				CAESWHTDSY FTLFIVNMLY APAALIVCFT YFNIFRICQQ HTKDISERQA RFSSQSGETG	
				EVQACPDKRY AMVLFRTSV FYILWLPYII YFLLSSTGH SNRFASFLT WLAISNSFCN	
				CVIYSLNSV FQGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	
262	3859	G Protein- Coupled Receptor GPR22	NM_005295	atgtgttttt cccccattc gaaatcaac atgcagtctg aatctaactc tacagtgcga A	Homo sapiens
				gatgacattg atgacatcaa caccaatag taccacaccac tatcatatcc gtaagcttt	
				caagtgtctc tcaccggatt tcttatgta gaaattgtgt tgggacttgg cagcaacctc	
				actgtattgg tactttactg catgaaatcc aacttaatca actctgcag taacattatt	
				acaatgaatc ttcatgtact tgatgtaata atttgtgtgg gatgtattcc tctaactata	
				gttatccttc tgccttccact ggagagtaac actgctctca ttgtctgtt ccatgaggct	
				tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgctatcac ttggacaga	
				tatgacatct ctgtaaaacc tgcaaacgca attctgacaa tgggcagagc tgtaattgta	
				atgatatacca ttgtgatttt ttcttttttc tcttttctga ttcttttat tgaggtaaat	

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p> tttttcagtc ttcaaaagtgg aaatacctgg gaaaaacaaga cacttttatg tgtcagtaca aatgaatact acactgaact gggaatgtat taccacctgt tagtacagat cccaatattc tttttcactg ttgtagtaat gttaatcaca tacaccaaaa tacttcaggc tcttaattat cgaataggca caagattttc aacaggggcag aagaagaaag caagaaagaa aaagacaatt tcttaacca cacaacatga ggtcacagac atgtcacaaa gcagtggtgg gagaaatgta gtctttgggtg taagaacttc agtttctgta ataattggcc tccggcgagc tgtgaaacga caccgtgaac gacgagaaag acaaaagaga gtcttcaggga tgtctttatt gattatttct acatttcttc tctgctggac accaatttct gttttaata ccaccatttt atgttttaggc ccaagtgaac ttttagtaaa attaagattg tgttttttag tcatggctta tggaaacaact atatttcacc ctctattata tgcattcact agacaaaaat ttcaaaaagt cttgaaaaagt aaaaatgaaa agcgagttgt ttctatagta gaagctgac cctgcctaa taatgctgta atacacaact cttggataga tcccaaaaga acaaaaaaa ttacctttga agatagtga ataagagaaa aacgttttagt gcctcaggt gtacacagact ag MCESPILIN MQSESNITVR DDIDDNTM YQPLSYPLSF QVSLTGFLML EIVLGLGSNL P TVLVLYCMKS NLINSVSNII TMNLHVLVDI ICVGCIPLTI VILLSLESN TALICCFHEA CVSFASVSTA INVFAITLDR YDISVKPANR ILTMGRAVML MISIWFSFF SFLIPFIEVN FFSLQSGNTW ENKTLVCVST NEYYTELGMY YHLLVQIPIF FFTVVVMLIT YTKILQALNI RIGTRFSTGQ KKKARKKKTI SLTQHEATD MSQSSGGRNV VEGVTSVSV IIALRRRAVKR HRERRERQKR VERMSLLIIS TFLCWTPIIS VINTILCLG PSDLLVKLRL CFLVMAYGTT IFHPLLYAFT RQKFQKVLKS KMKKRVVSIV EADPLPNNAV IHNSWIDPKR NKKITFEDSE IREKRLVPQV VTD </p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p> atgttgtgtc cttccaagac agatggctca gggcactctg gtaggattca ccaggaaaact A catggagaag gtaaaaggga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacgggtgg gtcgctggag gctgagcatg ccagcaggat gtcagtctc agagcaaaagc ccatgtcaaa cagccaacgc ttgtctcttc tgtcccagg atcacctcct cgacggggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctctgggca tcatcgggaa ctccacggtc atcttcgcgg tctgtgaaga gtccaagctg cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgcccct catgatccac cagctcatgg gcaatgggtt gtggcacttt gggagacca tgtgacacct catcacggcc atggatgcca atagtcaagt caccagcacc tacatcctga ccgccatggc cattgaccgc taactggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gcctccttg ggcctctcc ttcacagca tccccctgt gtggctgtat gccagactca tccccctcc aggagtgca gtgggtgctg gcatacgctt gcccaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt tgggtcatca cagccgcata cgtgaggatc ctgcagcgca tgacgtcttc agtggccccc catcgccatc tctttgtgtg ctgggcaccc aagagggtga cccgcacagc cactgtgtcc atcagccgcc cgacctcac ctttgtctac tactatgtgc cggccatcag cttgggctat gcacaacagct gcctcaaccc ctttgtgtac atcgtgctct gtgagacgtt ccgcaaacgc ttggtctctg cgggtgaagcc tgcagccccg gggcagcttc gcgtgtcag caacgtcag acgggtgac aggagaggac agaaagcaaa </p>	Homo sapiens

265	3860	G Protein-Coupled Receptor SLC/MCH1	NP_005288.1	ggaacactga	MLCPSKTDGS RAKPMNSQR HWCNNVPDIF YILTAMADR VGGIRLPNP KRVRTAIAI IVLCETERKR	GHSGRIHQET LLLLSPGSP IINLSVVDLL YLATVHPIS DTDLWFTLY CLVFFVCWAP LVLSVKPAAQ	HGEGKRDKIS RTGSISYINI FLLGMPFMIH TKFRKPSVAT QFFLAFALE YYVLQTLQLS GQLRAVSNAQ	NSEGRENGGR IMPSVEGTIC QLMGNGVWHE LVICLLWALS VVITAAVYRI ISRPTLTFVY TADEERTESK	GFQMNNGSLE LLGIIGNSTV QLMGNGVWHE FISITPVWLY LQRMVTSSVAP LYNAAISLGY GT	AEHASRMSVL IFAVVKSKL MDANSQFTST ARLIPFPGA ASQRSPLRT ANSCLNPFVY	P Homo sapiens
266	3861	G Protein-Coupled Receptor GPR25	NM_005298		atggccccca ttggacggcc tacatccccg gtgtggctgc ctggcggcag aggcggcccg acgcgctcgg gtgaagctgc ggcgtctggg ccctggcctg ctcagcttgc tactgcgcga tcctgcgcg gccttgcggg ctgtcggcgc gccaacccgc gcctgcgggc gacgacagtt	cagagccctg tggagagact cgctctacct tggccgggcg ctgacctggg ggcggcttcgg cgggcgcgct tcgagggcgag ccgtggcgct ggggccaggga tgctgctgct tctcgcgcg tcactcttcca cgctcttcca tgcgctgggg tcactctacct gcaccggcgcg ccgtgttccg	gagccccagc ggagctgtgt ggcgcccttc ggcgggcccg cttcgtgctc cgatggcttc gctgctggcg gccactgcgc gctggccggc cagccagtg gctgaccttc cctgcgacgg catcgagagc cctggcgcg cctcaccatt cctgctggac cctggcgcga aggatcacgt tgccggggcc	ccggggtcag ccggccgggg ggcgtgggsc cggcggtcgg acgtgcgcg tgcaagctca ggcatgagcg accccgcgct ctgcctccc ggcgaggagc tgctgctccc gtgctgcccc ccgcgcgacg gggttcgggc gctcctggct tgccgtggcg tgcccttcgt ggcccttcgt cagctcattcc aggatcacgt cagcctcctc acactgcctc	cgccctggga acgtgcccta tgctgggcaa tggatacctt tggtggccgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc	ctactcgggg cggctaagtc cgccttgctg tggatacctt tggtggccgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc tggtgcctgc	A Homo sapiens
267	3861	G Protein-Coupled Receptor GPR25	NP_005289.1		MAPTEPWSPS WLLAGRRGP TRSAGALLA PLPGGQDSQC SLRIIFAIES ANPLIYLLD	PGSAPWDYSG RRLVDTFVLH GMSVDRIYAV GEEPSHAFQG TFVGSWLPFS RSFRARALDG	LDGLEELELC LAAADLGFVL VKLLEARPLR LSLLLLLLTF ALRAVFHLAR ACGRTGRLAR	PAGDLPGYGV TLEPLWAAAA TPRCASVASC VLPLVVTFLC YCRISRRLRR LLALRWGLTI DDSSVFCRA	YIPALYIAAF RRWPFGDGL GVMAVALLAG YCRISRRLRR LLALRWGLTI DDSSVFCRA QAANTASASW	AVGLLGNFV CKLSTFALAG LPSLVYRGLQ PPHVGRARRN ATCLAFVNSC QAANTASASW	P Homo sapiens
268	3862	G Protein-Coupled Receptor GPR3	NM_005281		atgatgtggg gtaagcacgc aaggcctggg gtgggtggcca agcctggccg ttctgcatcg accgccagca	gtgcaggcag tggggcccag atgtggtgct tcacgtgtgg tggcagacct gtcagcgga tcggcagttc	ccctctggcc agagggggcc ctgcatctca cactcctggc gctggcaggc gatgagcctg actggccatc	tggtcttcag acaggtccag ggcaccctgg tgctctgcga tcctgtcccc ctgggcctgg gtgctggttg cgtgtcggc gctaccttc	ctggctcagg cgcgaccact tgctctgcga gaatgcgcta cctgttccct tgctgcactt cgctgtggtc aatggccttt gctaccttcc	A Homo sapiens	

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	gacctcacct actattcaga gacaaacagtg acacggacct atgtgatgtg ggccttagtg tggggagggtg ccttgggcct ggggtgctg cctgtgctg cctggaactg cctggatggc ctgaccacat gtggcgtggt ttatccactc tccaagaacc atctggtagt tctggccatt gacctttca tgggtgttgg catcatgctg tgccttcag cggcacctgc ccaaatctg ccgcategtc tgcgcctatg ccagcagat gaccttcag cactatggc gtggtgctg gacctttgc cgcctgtgg gcaacccgca agggcattgc cacactggc gtggtgctg gacctttgc cgcctgtgg ttgcccctca ctgtctactg cctgctgggt gatgcccact cccacctct ctacacctat cttaccttgc tccctgccac ctacaactcc atgatcaacc ctatcatcta cgccttcgcg aaccaggatg tgcagaaagt gctgtgggt gctgttctct gctgttctct tccaagatc ccctccgat cccgtccccc cagtgtgtc tag VVAIIIVGTPA FRAPMFLVWG VSSVGPAGP TGPAPLPSP KAWDVVLCIS GTLVSCENAL P TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYVMILALV WGGALGLGLL PVLAWNCLDG LTTCGVVYPL SKNHLVVLAI AFFMVEGIML QLYAQICRIV CRHAQIHALQ RHLLPASHYV ATRKGIATLA VVLGAFACW LPFTVYCLLG DAHSPPLYTY LTLPLATYNS MINPIIYAFR NQDVQKVLWA VCCCCSSSKI PFRSRSPSDV	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	atgccattcc caaactgctc agccccagc actgtggtgg ccacagctgt ggggtgtctg A ctggggctgg agtgtgggt ggggtgctg ggaacgcgg tggcgtgctg gaccttctg ttccgggtca ggggtgtgaa gccgtacgt gtctacctgc tcaacctggc cctggctgac ctgctgttgg ctgctgctc gctttctctg gccgcttct acctgagcct ccaggcttgg catctgggct gtgtgggctg ctgggcccct gctttctctg tggacctcag ccgacgctg gggatggcct tccctggcgc cgtggcttgg gaccgtacc tccgtgtggt ccacctcgg cttaaggctc acctgctgtc tctcaggcg gccctggggg tctgggctc cgtctggctc ctgatggctg cctcaccctg cccgggctg ctcatctctg aggcggccca gaactccacc aggtgccaca gtttctactc cagggcagac ggtctcttca gcatcatctg gcaggaagca ctctctgctc ttcagtgtgt cctcccttt ggcctcatcg tgttctgcaa tgcaggcatc atcagggtc tccagaaaag actccgggag cctgagaaac agcccaagct tcagcgggct caggcactgg tcaccttgggt ggtggtgctg tttgctctgt gctttctgct ctgcttctg gccagagtcc tgatgcacat cttccagaat ctggggagct gcaggggcct ttgtgcagt gtcatacct cggatgtcac cacttcagg gggcagcct acctacctg acagtctgt caacccctg gtatactgt tctccagccc cacttcagg agctcctatc ggagggtctt ccacacctc cgaggcaag ggcaggcagc agagccccc gatttcaacc ccagagactc ctattcctga MPFNCAPS TVVATAVGLV LGLECGLL GNAVALWTFV FRVRVWKPYA VYLLNLALAD P LLLAACLPFL AAFYLSLQAW HLGKRVGCWAL RFLDLRSRV GMAFLAAVAL DRYLRVHPR LKVNLLSPQA ALGVSLVWL LMVALTCPGL LISEAQNST RCHSFYSRAD GSFIIWQEA LSCLOFVLPF GLIVFCNAGI IRALQKRLRE PEKPKIQRA QALVTLVVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHVVNVPV VYCFSSPTFR SSYRRVFEHL RGKGQAEPP DFNPRDSYS	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	gagggcaaa ggcaggcagc agagccccc gatttcaacc ccagagactc ctattcctga MPFNCAPS TVVATAVGLV LGLECGLL GNAVALWTFV FRVRVWKPYA VYLLNLALAD P LLLAACLPFL AAFYLSLQAW HLGKRVGCWAL RFLDLRSRV GMAFLAAVAL DRYLRVHPR LKVNLLSPQA ALGVSLVWL LMVALTCPGL LISEAQNST RCHSFYSRAD GSFIIWQEA LSCLOFVLPF GLIVFCNAGI IRALQKRLRE PEKPKIQRA QALVTLVVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHVVNVPV VYCFSSPTFR SSYRRVFEHL RGKGQAEPP DFNPRDSYS	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctggtgacct tacttatctc tgttgctttc tggggctccta ggaaatgcca gcactccac A ccacattgcc tgaactttcc aacactccct agctgcgctg tgtcctatct caacacttcc tcatgtattt cttgtgtctt ctagaacatt ccccgcccat tattacttca ataggctac	Homo sapiens

GPR4

acatacttc taatggccct gaaaccatc tccctctcac cctggccag cgatgcttc
gtctctcca taaacactcc cggagaccaa tttttgtgtc accccatcac tccctgttg
acacactgac tccatacata acctccttga aaaacctctt tattaatctc accatcctc
agacttccct cctgtcataa ttccatccct acccaacctc atctctccc tctccttca agctctgcc
ttccagccc agcccagct acccaacctc atctctccc tctcctccc atccacct
gttccccctga gctccaagg aaggggctca gggggccca tggcctccc cctcctgtg
ccccacgccc cccgtggccc aggggaagcg cccagaagc cgaagtggcc accatggga
accacacgtg ggagggtgc cactggact cgcgctgga ccacctctt ccgcatccc
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accgccaagt gcaacagcg aacgagctgg gcgtctacct gatgaacctc agcatcgccg
acctgctgta catctgcag ctgcgctgt ggggtgacta cttcctgcac cagacaact
ggatccacgg cccgggtcc tgaagctct ttgggttcat cttctacacc aatatctaca
tcagcatcgc cttcctgtgc tgcattcgg tggaccgcta cctggctgtg gccaccac
tcgcttcgc ccgctbccc cgcgtcaaga ccgctgtggc cgtgagctcc gtggtctggg
ccacggagct gggcgcaac tcggcgccc tgttccatga cgaactcttc cgagaccgt
acaaccacac cttctgcttt gagaagtcc ccatggaag ctgggtggcc tggatgaacc
tctatcgggt gtctgtggc tctccttcc cgtggcgct catgctgtg tctaccggg
gcatacctgc ggcgtgccc ggcagctgt ccacgagcg ccaggaag gccaagatca
agcggctggc cctcagctc atgcctatg tctgtgtctg ctttgcgcc taccagtg
tctgtctgc ccgacgccc atctacctg gccgcccctg ggaactggc ttcgaggagc
gcgtcttttc tgcataccac agctcactgg ctttaccag cctcaactgt gtggcggaac
ccatcctcta ctgcctggc aacgaggcg ccgcagcga tgtggccaa gcccgtgaca
acctgctccg ctttctggc agcagaaag cccagagat ggcataagc tgcctaccc
tggagacccc actcactcc aagagaaaca gcacagcaa agccatgact ggcagctggg
cggccactcc gccctcccag ggggaccag tgcagctgaa gatgctggc ccagacaa
gaaccccag tggcacagaa tcccagttt tcccctctca tcccacagtc ccttctctc
tggctgtgtg tatgcaaat tgggtgtca agggctgtgt taatttcat aagaatacaa
gaacttagga agagtgaagt tgggtgtca ctgggtcaac tttgtgtcc cagatcccat
cacagtgtg cgattgtga gggcctcctg aaggaggaga tgagtaata tattttttg
gagacagggc ctactgtgt tcccaggtc aggtgcagt agtgcagtcg tggctcactg
cagctccac ctcctgggt ctcacagat ctccacat cagctcccg agtagctggg
accacaaatg tgagcccac catgctggc taattttgt actttttga taaatggagt
ctcactatgt tccccaggc tgatcttga ctcctgggt caagagatcc tctgccttg
gcctcccaa gtgctcagat tagagatgt agcgcctatg tctggccaga taaattaagt
caaacatttg gtttccagaa aataaagaca atagagaa gttagatttt ttttttcca
acaagtggat aaaagtctgt gactcggggg aaagtggaa gagaatgca gccgatatag
agtcatatg tttgcaaac cctgggtcat acaggccagg gaacataaga ccgcaattct
aagtttctag ataacagcg atctccaagt caagactgag gatgaaggg gagaatgtca
gaactcaagt gaaggccaat cagggcagag agtgaagcca gaaggttttg
gaagaagggt tgggacaaga agaaagggt tttattcatt cattcaacag aggtttatgt
aggcactgt gctgggtggg gctggggaca caacaatgac tgggagcagc tggccttggc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacagggc tcaccatata caagtaaaata aaaaatatgt aatgttttga attgct MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPTNCLALW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWTHPGSC KLFGEFIFTN IYISIAFLCC ISVDRLAVLA HPLREFARLR VKTAVAVSSV VWATELGANS APLFHDELPR DRYNHTFCFE KPFMEGWAVW MNLRYRVEGF LFPWALMLLS YRGILRAVRG SVSTERQEKI KIKRLALSLL AIVLVCFAPY HVLLSRSAL YLGRPWDCGF EERFESAYHS SLAFTSINCV SAPILYCLVN EGARSDVAKA LHNLRLFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tcccaggtgg tggtagtggc ggccgaagga A gcggcgccgg cggccacagc agcagggggg cggacacagg gcgaatgggg accccctgct gcggcgctc taggagccgg cggcgagct aatgggtctc tggagctgtc ctgcagctg tcggctggc caccgggact cctgctgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatcgc tggagaaaac gcgctggtgg tggcgctcat cgcgtccact ccggcgctgc gcacgcccatt gttcgtgctg taggacgagc tggccaccgc tgacctgttg cgggctgtg gctcatctt gcactttgtg ttccagtact tggtgccctc ggagactgtg agctctgcca cggtaggctt cctcgtggcc tcttcgccc gcctgtgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacgcgc tcaactatta ctgcgcgcgg accctgttgg gcgtgcacct cctgctggcc gccacttggg ccgtgtccct aggcctgggg ctgctgcccg tctggtggctg gaactgctg gcagagcgcg ccgcctgcag cgtgggtgcg ccgtggcgc gcagccacgt ggctctgctc tccgcgcctc tcttcattggt cttcggcctc atgctgcacc tgtacgtgcg catctgcccag gtggtctggc gccacgcga ccagatgcg ctgcagcagc actgctggc gccaccctat ctgcgtgcca ccagaaaggg tgtgggtaca ctggctgtgg tctggtggcac ttctggcgcc agctggctgc ccttcggcat ctattgctg gtgggagacc atgaggaccc ggcggtctac acttacgcca cctgctgccc cgccacctac aactccatga tcaatcccat catctatgcc ttccgcaacc aggatccca gcgcgcctg tggctcctgc tctgtggctg ttccagtc ccaagtgcct tctgttccag gtctccacg gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	MNASAAASIND SQVVVVAEG AAAATAAGG PDTGEWGPPA AAALGAGGGA NGSLELSSQL P SAGPPGLLP AVNPWDVLLC VSGTVIAGEN ALVVALIAST PALRTPMFVL VGSLATADLL AGCGLILHFV FQYLPSETV SLLTVGFLVA SFAASVSSLL AITVDYLSL YNALTYYSRR TLIGVHLLLA ATWTVSLGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMVEGI MLHLYVRICQ VWRHHAHQIA LQHQCLAPPH LAATRKGVT LAVVLGTFGA SWLPFAIYCV VGSHPDPVY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgttctc ggagccctgg ccgcgccaacg catcgggccc ggacccggcg A ctgagctgct ccaacgcgc gactctggcg ccgctgcccgg cgccgctggc ggtggctgta ccaagtgtct acgcgggtgat ctgcgccgtg ggtctggcgg gcaactccgc cgtgctgtac gtgttctgctc gggcgccccg catgaagacc gtcaccaacc tgttcatcct caacctggcc atcgccgacg agctcttccac gctggtgctg cccatcaaca tcgcccactt cctgctgcgg cagtgggccct tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	MDNASFSEP PANASGPDPA LSCSNASTLA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P VLLRAPRMKT VTNLFILNLA IADELFTLVL PINIADFLLR QWPFGEIMCK LIVAIQYNT FSSLYFLVM SADRYLVVLA TAESRRVAGR TYSAARAVSL AVWGIVTLV LPFAVFAFLD DEQRRQCVL VFPQPEAFWM RASRLYTLVL GFAPVSTIC VLYTLLCRL HAMRLDSHAK ALERAKKRV FLVVAIIAVC LLCWTPYHLS TVVALTTDLP QTPLVIAISY FITSLTYANS CLNPFLYAFL DASFRNLRQ LITCRAAA	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	atgcaggcgc ctgggcaacc agagccctt gacagcagg gctcctctc cctccccacg A atgggtgcca agctctctca ggacaatggc actggccaca atgccacctt cctccagacca ctggccgttc tctatgtgct cctgcccgc gtgtactccg ggatctgtgc tgtgggctg actggcaaca cggccgtcat ccttgtaac ctaagggcgc ccaagatgaa gacggtgacc aacgtgttca tccgtaacct ggcgtgcgc gacgggctct tcaagctgggt actgcccgtc aacatcgccg accactgtgt gacgtactgg cctctcgggg agctgtctct caagctgggtg ctggccgtcg accactacaa catcttctcc agcatctact tccctagcgt gatgagcgtg gaccgatacc tgggtggtgt ggccaccgtg aggtcccgc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgtc tggctgggcg tcaagctctt ggttctgccc ttcttctctt tcgctggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgctgg ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtgctgc ccgtgtgcac catctgtgtg ctctacacag acctcctgcg caggctgcgg gccgtgcggc tccgctctgg agccaaggct ctaggcaagg ccaggcgaa ggtgaccgtc ctggctctcg tcgtgctggc cgtgtgctc ctctgctgga cgccctcca cctggcctct gtcgtggccc tgaccacgga cctgccccg accccactgg tcatcagat gtcctacgtc atcaccagcc tcacgtacgc caactcgtgc ctgaacccct tccctacgc cttctagat gacaacttcc ggaagaactt ccgcagcata ttgcggtgct ga MQAAGHPEPL DSRGFSLEPT MGANVSQDNG TGHNAFSEP LPFLYVLLPA VYSGICAVGL P TGNTAVILVI LRAPKMTVT NVFILNLAVA DGLFTLVLPV NIAEHLQYW PFGEILLCKLV LAVDHYNIFS SIYFLAVMSV DRYLVVLTATV RSRHPWRTY RGAKVASLCV WLGVTVLVLP FFSFAGVYSN ELQVPSCGLS FPWPERVWFK ASRVYTLVLG FVLPVCTICV LYTDLLRRLR AVRLRSKAKA LGKARKKTV LVLVVAVCL LCWTFPHLAS VVALTTDLPQ TPLVISMSYV ITSITYANSC LNPFLYAFLD DNERKNFRSI LRC	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1		Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactaggcga ggcgtccat cggactcaat agccgcactc A atgaatcggc accatctgca ggatcacit ctggaataag acaagaagaa ctgctgtgtg ttccgagatg acttcattgc caagtggttg ccgccgtgtg tggggctgga gtttatcttt gggtctctgg gcaatggcct tgccctgtgg atttctgtt tccacctcaa gtccctgaaa tccagccgga ttttctgtt caacctgga gtactgact tctactgat catctgcttg ccgttcgtga tggactacta tgtgcccgt tcaagactga actttgggga catcccttgc cggctgtgac tcttcattgt tgccatgaac cgccaggga gcatcatctt cctcacggtg gtggcggtag acaggtattt ccgggtgttc catccccc acccctgaa caagatctcc aatggacag cagccatcat ctcttgcct ctgtgggga tcaatgttgg cctaacagtc cacctcctga agaagaagt gctgatccag aatggccctg caaatgtgtg catcagcttc agcatctgcc ataccttccg gtggcacgaa gctatgttcc tcttggagtt cctcctgcc ctgggcatca tctgttctg ctacagccga attatctgga gcctgaggga gagacaaatg gaccggcatg ccaagatcaa gagagccatc accttcatca tgggtgtggc catcgtcttt gtcatctgct tcttccccag cgtggttctg cggatccgca tcttctggct cctgcacact tcgggcacgc agaattgtga agtgtaccg tcggtggacc tggcgttctt tatcactctc agcttccact acatgaacag catgctggac cccgtgtgtg actacttctc cagcccatcc tttcccaact tcttctccac ttgatcaac cgtgcctcc agaggagat gacaggtgag ccagataata accgaagcac gagcgtcag ctcacagggg acccaacaa accagaggc gtccagagg cgttaatggc caactccgt gagccatgga gccctctta tctgggccc acctcaata accattccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa cagttgggct gttgcatga gtaatgtcac tggactcggc ctaaggttct ctggaacttc cagattcaga gaattcgtt tagggaact gtggcagatg agtgagagac tgggtgcaag gtgtgaccac agaatcctg gaggaacaga gactaaagt tctaggcatc tgaacttgc ttcatctctg accctcgcag gactgaagt gggcaaatg taggcgttct tgcagagcag agttggagcc agagatctac ttgtgacttg ttggccttct tccacatct cctcagact ggggggggct cagctcctcg ggtgatctct agcctgcttg tgactctag cagggataag gagagctgag attggaggga attgtgtgc tctggaggga agcccaggga tcattaaaca agccagtagg tcacctggct tccgtggacc aattcatctt tcagacaagc tttagagaaa tggactcagg gaagagactc acatgcttg gtagtatct gtgttccgg tgggtgtaat aggggattag cccagaagg gactgagcta aacagtgtta ttatgggaaa ggaatggca ttgtgcttt caaccagca ctaatgcaat ccattcctct ctgtttata gtaactaaag ggttgagcag ttaaaacggc ttcaggatag aaagctgttt cccacctgtt tctgtttacc attaaaagg aaacgtgcct ctgccccacg ggtagagggg gtgcacgttc ctctgggtc ctcgtctgt gttctgtac ttacaaaaa tctaccactt caataaat ttagaggaga caaaaaaaa a	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	LEIDKKNCCV FRDDFIKVL PPVIGLEFIF GLNGNLALW IFCFHLKSWK P SSRIFLENLA VADFLILCL PFVMDYYVRR SDWNFGDIPC RLVLFMFAMN RQGSIIFLT VAVDRYFRV HPHALNKIS NWTAAIISCL LMGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWE AMFLEFLP LGIILFCSAR IIVSLQRQM DRHAKIKRAI TFIMVAIVF VICFLPSVV RIRIFWLHT SGTONCEVYR VSDLAFFITL SFTYNSMLD PVVYFSSPS FPNFFSTLIN RCLQRKMTGE PDNNRSTVE LTGDPNKTRG APEALMANSR EPWSPSYLGR	Homo sapiens

282	3870	G Protein- Coupled Receptor OGR1	NM_003485	TSNNHKKKGH CHQEPASLEK QLGCCIE.	atggggaaca tcaactgcaga caactctctg atgagctgta ccatcgacca taccatccac A cagacgtgg ccccggtggt ctatgttacc gtgctggtgg tgggcttccc ggcacactgc ctgtccctct acttcggcta cctgcagatc aagccccga acgagctggg cgtgtacctg tgcaacctga cgggtggccga cctcttttac atctgtctgc tgcccttctg gctgcagtac gtgctgcagc acgacaactg gtctcaaggc gactgtctct gccaggtgtg cggcatcctc ctgtacgaga acatctacat cagcgtgggc tctcttctgt gcatctccgt ggaccgttac ctggctgtgg cccatccctt cgccttcac cagttccgga cctgaaggc ggccgtcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggacgagaa ccagcacgc gtgtgctttg agcactacc catccaggca tggcagcgcg ccatcaacta ctaccgttc ctggtgggt tctcttccc catctgctg ctgtggcgt cctaccaggg catctcgcc gccgtgccc ggagccacgg caccagaag agccgcaagg accagatcca cggcgtggtg ctcagcacgg tggcatctt cctggcctgc ttcctgccct accacgtgtt gctgctggtg cgcagcgtct gggagggcag ctgcgacttc gccaaaggcg ttttcaacgc ctaccacttc tccctcctgc taccagctt caactgcgtc gccgaccccg tgcctactg ctctctcagc gagacacccc accgggacct ggccccctc cgcggggcctt gcctggcctt cctcacctgc tccagggccc gcccggccag ggagccctac ccgctgggtg ccccgaggc ctcgggaaa agcggggccc agggtgagga gcccagctg ttgaccaagc tccaccggc cttccagacc cctaacctgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCITDHTIH QTLAPVVVT VLVVGFANP LSLYFGYLQI KARNELGVYL P CNLTVADLFY ICSLPFWLQY VLOHDNWSHG DLSCQVCGIL LYENIYISVG FLCCISVDYR LAVAHPRFH QFRTLKAAG VSVVIWAKEL LTSIYFLMHE EVIEDENQHR VCFEHYPIQA WQRAINYYRF LVGFLEPICL LLASYQGILR AVRRSHGTQK SRKDIQRLV LSTVVIPLAC FLPYHVLLLV RSVWEASCDF AKGVFNAYHF SLLTSFNCV ADPVLVCFVS ETTHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caccggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaaacct accctacgtgc ggggctcgtt ggggcccggc accagcacc tgaatgtcgt gcccggtgtg gtgggcaacg ggcctggcctt gggcatcctg agcgacggc gaccggcgcg cccctcgcc ttcgcggtgc tggteacgg actggcgcc accgacctgc tgggcaccag ctctctgagc ccggccgtgt tgcgtggccta tgcgcgcaac agctccctgc tgggcctggc ccgagggcgc cccgacctgt gcgatgctt cgccttcgcc atgacctct tcggcctggc gtcctatgct atcctctttt ccatggcctt ggagcgtgc ctggcgctga gccacctcta cctctacgc cagctggagc ggcctcgctg cgcctcgctg gcgtgccag ccatctacgc ctctctgct ctctctgct cgtgccccct gctgggctg ggccaaacac agcagtactg ccccggcagc tgggtcttcc tccgcatgct ctgggccccg ccggggcggc ccgccttctt gctggcctac gccggcctgg tggccctgct ggtggctgct atcttctctt gcaacggctc ggtcacctc agcctctgct ccatgtaccg ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggacgaggt ggaccacctg	Homo sapiens	

285	3921	Prostacyclin NP_000951.1 Receptor	atcctgtgg cccatcatgac agtgggtcatg gccgtgtgct cccgtgcctct cactatccgc tgcttcacc aggtgtgctg cctgacagc agcagtgaaga tgggggacct ccttgcccttc cgcttctacg ccttcaacc cactctggac ccttggtgtct tcatcctttt cgcgaagct gtcttccagc gactcaagct ctgggtctgc tgcctgtgct cgggacctgc ccacggagac tcgcagacac ccttttccca gctgcctcc gggagaggg acccaaggcc cctctgtct cctgtgggaa aggaggggag ctgctgctt tgtctggctt gggcgaggg gcagggtggag cccttgctc ccacacagca gtccagcggc agcgccgtgg gaacgtctgc caaagcagaa gccagcgtcg cctgctccct ctgctgacat ttcaagctga cctgtgctc tctgcccctg cttcggggca caggagccag aaatcaggg acatggctga tggctgcgga tgcgggaacc ttggccccc aactctggg cgtatcagct gctgttctc ctgcggcagg gcagtcgctg ctggctctgg gaagagagtg agggacagag gaaacgttta tccctggagt cagaaagaat ggttctctca aaataaccag tggcctggcc gacctgctct ggcctggat tcccctcca tctcattgtc taaatattta gaaggcggag aggtccctcagg aggttctctg acagtcaggt ctgctctggt ctgggtgctg gctccaatct gcgtccactt agggagccca actgcccacc cgaagtccc aggggatggc cctcccctc taccacagca ctccaagagc cagccccctt tctgctccac aaaaaccaca gttattggaa aagctccctg cctccccttg cgcgtggtcc cccaccaggc ttgggagccc tggcatccca aaggggcaac gggaggaagg ggaggtgct gcattgtggg tgatgacgta ggacatgtgc ttggtacaaa aaggcctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin D2 Receptor	llgtsflspa vfvayarnss llglarggpa lcdafafamt ffglasmlil fmauvercla lshpylyaqd dgprcarlal paiyafcvlf calplllglgq hqycpgswc flmrwaqpg gaaflslayag lvallvnaif lcngsvtlsl crmyrqokrh qsglqprprt gedevdhlil lalmvwmav cslpltrcf tqavapdss emgdllafre yafnpildpw vfifrkave orlkilwvcl clgpaahgdsq tplsolasgr rdprapsapv kgegscvpls awgegqvepl pptqssgsa vgtsskaeas vacslc gctgtgcaac ctggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcggca a cccgctctc tgcacaggg actgtgccga gccgcgcgcg gacgggaggg aagcgtcccc tcagccccctg gaggagctgg atcacctct gctgctggcg ctgatgaccg tgctcttcac tatgtgtct ctgcccgtaa ttatcgcg cttactatga gcatttaagg atgtcaaggga gaaaaacagg acctctgaag agcagaaga cctccagacc ctgcgatttc tatctgtgat ttcaattgtg gaccttga tttttatcat tttcagatct ccagttattc ggatattttt tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat ggatccagct ctgtgacagt gttttcact ctgtggttaag ctgaggaata tgtcacattt tcagtcagg aacca mkspfyrcon ttsveknsa vmggvlfstg llgnllalgl larsglwcs rrplrlpsv p fymvlcgltv tdlkgkclls pvvlaayaqn rslrvlapal dnlcqaaf fmsffglst lqlamalec wslghpffy rrhitrlga lvapvsafls lafcalfmg fgkfvqycpg twcfiqmve egslsvlgy vlysslmall vlatvncnlg amrnlyamhr lqhrhprst rdcaepradg reaspoplee ldhllllalm tvlftmcslp viyraygaf kdveknsrt eeaedlralr flsvisivdp wififrspv friffhkifi rplrysrscs nstnmessl	Homo sapiens
287	3923	Prostaglandin Q13258 n D2 Receptor		Homo sapiens

288	3924	Prostaglandin E Receptor EP1	NM_000955	<p> ggggggcgga ggggtgagcg gccgtgatg gggacccccc gggacaggca atccccaggca gtgccgggcaac A ccctggcgcc tgacatgagc ccttgccggc cctcaacct gagcctggcg ggcgaggcgga ccacatgcgc ggcgccttgg gtccccaaca cgtcgccgct gccgcgtcg ggcgttccg ccgcgtgcc catcttctcc atgacgttg ggcctgcgac gccgcgtgc caacctgctg gcgtggcg tgctggccag cctgctggcc accgacctgg gggccacgt gatcccgggc gcgtgggtgc tgctctgta cactgcccgg cgcgtccgg cgcgcggggc cggccacgtc cgtccacgtc ctggggcggt gcatggtctt cttcgccctg tgcccgtgc tgctgggctg tggcatggcc gtggagcgct gcgtggcgct caccggccg cgtctccag cgcgcgggt ctcggtcgcc cgcgcgcgcc tgccgtggc cgcgtggcc ggcgtggcc tgccgtggc gctgctggc ctggcgcgcc tgcccgcta tgagctgag taccgggca cgtggtgct catcgccctg ggtcccgccg gcgtggcg ccaggcactg cttgctggc tcttcgcc cctcgccctg gtcgcgtcc tcgcgcgct ggtgtgcaac accgtcagc gctggccct gcctgcgcc cgtggcgac accgaccccg accgctccc cctcgctcc gcccgcag cgcgcgtgc tggggggcg ttggcgctc tgggagcgc gctcgccac cctcgctcc cctcgctcc cgttcggcc tccacctct tgccagct tgcgtgac atggtggtg cgtgcatcg ctggagccca atgctggtg tggtggcgt ggcgtggc ggcgtggc ggcgtggc ctacctcc gcagcgccca ctgttctgg ccgtgcgct tgcctcctg aaccagatc tggaccttg ggtgtacat ctactgcgc agccgtgct gcgcaactg cctcgctct cgcgcggcc ggcggagcc aaggggcgcc ccgcgggct ggcctaaca ccgagcct cgcgcggcc ggcggagcc agctccggc accgcgct cagccactc taagcaca cagagccca cgcactaagc cagccccc tggtggcg ccaggtgcg ggcgcagc ctttgggaat aaaaagccat cctgcg </p>	Homo sapiens
289	3924	Prostaglandin E Receptor EP1	NP_000946.1	<p> MSPCGPLNS LAGEATCAA PWVNTSAVP PSGASPALPI FSMTLGAVSN LLALALLAQA P AGRLRRRSA TTFLLFVSL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF GLCPILLGCG MAVERCVGVT RPLHAAVRS VAVARLALAA VAAVALAVAL LPLARVGRYE LQYPTWCFI GLGPPGWRQ ALLAGLFASL GLVALLAALV CNTLSGLALH RARWRRRSRR PPASGPDSR RRWGAHGPRS ASASSASSIA SASTFFGGRS SSGSARRARA HDVEMVGQLV GIMVVSICW SPMLVLVALA VGGWSSTSLQ RPLFLAVRLA SWNQILDPMV YILLRQAVLR QLRLLLPPRA GAKGGPAGLG LTPSAWEASS LRSSRHSGLS HF ggcccgccgt cggcgccgtg ggtgcgggaa gggggctctg gatttcggtc cctcccttt A ttctctgag tctcggaacg ctcagctct cagacctct tctcccgagg taaaggccgg gagaggagg cgcactctt ttcaggcac ccacacatgg gcaatgctc caatgactcc cagctgag actcgagac gcgacagtg cttcccccag gcgaaagccc agccatcagc tcctcatgt tctcgccgg ggtgctggg aacctatag cactggcgt gctggcgcc cgtggcggg gggacgtgg gtgcagccc ggcgcagga gctcccttc cttgttccac gtgctggtga ccgagctgt gttcaccgac cgtctggga cctgcctcat cagcccatg gtactggtt cgtacgcgc gaaccagacc ctggtggcag tggcgccga ggcgcgcg tgcaactact tgccttcgc catgacctc tcagccttg ccagatgt catgctctc gcaatggccc tggagcgcta cgtctgac ggcgacctt actttacca gcgcgcgct tcggcctccg ggggcctggc cgtgctgct gtcactatg cagtctccct gctcttctg </p>	Homo sapiens
290	3925	Prostaglandin E Receptor EP2	NM_000956		Homo sapiens

291	3925	Prostaglandin E2 Receptor EP2	NP_000947.1	<p>tgcgtgcgc tgcgtgacta tgggcagtac gtccagtlact gccccgggac ctggtgcttc atccggcacg ggcggaccgc ttacctgcag ctgtacgca cctgtctgct gcttctcatt gtctcgggtgc tgcctgcaa cttcagtgct accctccctg ggcagtgccc cggggccgcg agccggagaa ggcgtgcgg accctccctg ggcagtgccc cggggccgcg cggggccgcg aggagagggg aaagggtgct catggcgag gagacggacc accctcattct cctggctatc atgaccatca ccttcgcccgt ctgctccctg cctttcacga tttttgcata tatgaatgaa acctcttccc gaaaggaaaa atgggacctc caagctctta ggtttttatc aattaattca ataattgacc cttgggtctt tgccatcctt aggcctcctg tctcgagact aatgcgttca gtcctctgtt gtcggatttc attagaaca caagatgcaa cacaaacttc ctgttctaca cagtcagatg ccagtaaaaca ggcagacctt tgaggtcagt agtttaaaa gttcttagtta tatagcatct ggaagatcat tttgaaattg ttccttgagg aatgaaaaac agtgtgtaaa caaatgaag ctgcctaata aaaaaggagt atacaacat ttaagctgtg gtcaaggcta cagatgtgct gacaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtactggcc tttggaggaa caatcggctg catgaagat ccagctgcct attgatttaa gcttctcgtg tgaatgaaa agtatgtggt tttgtaattt gtttgaacc ccaaacagt actgtacttt ctattttaat cttgctacta cgttatata catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaatatg tggaagcaac caagcctgct gcttgtgat cacttagcga accctttatt tgacaataga agttgaaaat cataggcacc ttttactgtg atgttttgtt atgtgggagt acctctatca ctacagtatt actcttacia gagggactc agtgggttaa catcagtttt gtttactcat cctccaggaa ctgcaggtca agtgtcagg ttattttatt tataatgtcc atatgctaag agtgatcaag aagactttag gaatggttct ctcaacaaaga aataatagaa atgtctcaag gcagttaatt ctcataata ccttattat cctattttctg ggggaggagt tacgtggcca tgtatgaagc caaatattag gcttaaaaa ctaaaaaatct ggttctattct tcagatatac tggaaccttt ttaaagttga tattgggccc atgagtaaaa tagattttat aagatgactg tgtgtgacca aaattcatct gtctatattt tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataata tttctaaaatg tttggcatgt aaatgtaaac tcagcatcaa aatatttcag tgaatttgca ctggtttaatc atagttactg tgtaaaactca tctgaaatgt tacaaaaata aactataaaa Ca</p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p>MGNASNDQSQ EDCETPQWLP PGESPAISSV MFSAGVLGNL IALALLARRW RGDVGCSAGR P RSSLSLFHVL VTELFTDLL GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFFS LATMIMLFAM ALERYLSIGH PYFYQRRVSA SGGLAVLPVI YAVSLLFCSL PLDDYGQYVQ YCPGTWCFFIR HGRTAYLIQLY ATLLLLIIVS VLACNFSVIL NLIRMHRRSR RSRGPGSLGS GRGGPGARRR GERVSMAEET DHLILLAIMT ITFAVCSLPF TIFAYNNETS SRKEKWDLQA IRFLSINSII DPWFVAILRP PVLRLMRSLV CCRISLRTQD ATQTSCTQS DASKQADL</p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	<p>accagaggtt tcccagagag gaaggcgtgg ctccctcccg ggcagtgtag ccttggcgcc A gccgcggccg cggctccagc agcggagtag ggcggcggtt gcgccccgca ccatgggggg cagccagcc ccagcgcggg taaacgcga cctccgcgcg cgcgcgcgcg cggtctgccc</p>	Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	ac	<p> MKETRGYGGD APFCTRNLNHS YTGWAPERS AEARGNLTRP PGSGEDCGSV SVAFPITMLL P TGFEVGNALAM LLVRSRYRRR ESKRKKSFL CIGWLALTDL VGQLLTPVW IVVYLSKQRW EHIDPSGRLC TFFGLTMVFE GLSSLFIASA MAVERALAIR APHWYASHMK TRATRAVLIG VWLAVLAFAL LPVLGVGGYT VQWPGTWCFI STGRGNGTS SSHNWGNLFF ASAF AFLGLL ALTVTFSCNL ATIKALVSRK RAKATASQSS AQWGRITTEI AIQMGIMCV LSVCSPLLI MMLKMIENQT SVEHCKTHE KQKECNFFLI AVRLASLNQI LDPWVYLLR KILLRKFCQM RKRLIREQEM GPDGRCFCHA WRQVPRTWCS SHDREPCSVQ LS cggeacagcc tcacacctga acgctgtcct ccgcagacg agaccggcgg gcactgcaaa A gctgggactc gctcttgag gaaaaaaat agcagagtaag aaatccagca ccattcttca ctgacccatc ccgctgcac tctgtttcc caagttttg aaagctggca actctgacct cggtgtccaa aaatcgacg ccaactgagac cggctttgag aagccgaaga ttgtgagtt </p>	Homo sapiens
295	3927	Prostaglandin E4 Receptor EP4	NM_000958		<p> cggeacagcc tcacacctga acgctgtcct ccgcagacg agaccggcgg gcactgcaaa A gctgggactc gctcttgag gaaaaaaat agcagagtaag aaatccagca ccattcttca ctgacccatc ccgctgcac tctgtttcc caagttttg aaagctggca actctgacct cggtgtccaa aaatcgacg ccaactgagac cggctttgag aagccgaaga ttgtgagtt </p>	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	<p> tccagactga gcaggacaag gtgaaagcag gttggaggcg ggtccaggac atctgagggc tgaccctggg ggctcgtgag gctgccaccg ctgctgcgcg tacagaccca gecttgcact ccaaggctgc gcaccgccag ccactatcat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccggctga acagcccagt gaccatcccc gcggtgatgt tcatcttcgg gggtgtgggc aacctgggtg ccatcgtggt gctgtgcaag tcgcgcaagg agcagaagga gacgaccttc tacacgctgg tatgtgggct ggctgtacc gacbtgttgg gcactttgtt ggtgagcccc gtgacacatcg ccacgtacat gaaggccaa tggcccgggg gccagccgct gtgagagtac agcaccttca ttctgctctt cttcagccctg tccggcctca gccatcatctg cgccatgagt gtcgagcgct acctggccat caaccatgcc tatttctaca gccactacgt ggacaagcga ttggcgggcc tcacgtctct tgcagtctat gcgtccaaag tgcctctttg cgcgctgcc aacatgggtc tcggtagctc gcggctgcag taccagaca cctggtgctt catcgactgg accaccaacg tgacggcgca cgccgctac tccatcatgt acgcgggctt cagctccttc ctcatctcgt ccaccgtcct ctgcaacgtg cttgtgtgcg gcgcgtgct ccgcatgcac cgccagttca tgcgcgcac ctgcgtggcg accgagcagc accacggcg cgcgccgcc tgggttgctt ccgggggcca ccccgctgcc tcccagcct tgcgcgcct cagcgacttt cgggcgcgcc ggagcttcgg cgcgctcgcg ggcgcgaga tccagatggt catcttactc attgccact ccctggtggt gctcatctgc tccatccgc tcgtggtgcg agtattcgtc aaccagttat atcagccaag ttgtggagcga gaagtcagta aaaatccaga tttgaggcc atccgaattg cttctgtgaa ccccatccta gacccctgga tatatactt cctgagaaaag acagtgtcga gtaagcaat agagaagatc aaatgctct tctgcgcct tgcggggtcc cgcaggagc gtcgcggaca gactgctca gacagtcaaa ggacatcttc tgccatgtca ggcactctc gctcctcat ctcggggag ctgaaggaga tcagcagtag atctcagacc ctcctgccag acctctact ggcagacctc agtgaataatg gcttgaggg caggaatttg cttccaggtg tgcctggcat gggcctggcg caggaaagaca ccactcact gaggactttg cgaatatcag agacctcaga ctcttcacag ggtcaggact cagagagtgt cttactggtg gatgaggtg gtgggagcgg cagggctggg cctgccccta aggggagctc ctgcaagtc acattccca gtgaaacact gaacttatca gaaaaatgta tataataggc aaggaaagaa atacagtact gtttctggac cttataaaa tctgtgcaa tagacacata catgtcacat ttagctgtgc tcagaaggcg tatcatca </p>	Homo sapiens
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	<p> LAVTDLGLT LVSPTIATY MKGQWPGQP LCEYSTFILL FFSLSGLSII CAMSVERYLA INHAIFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPTWTC FIDWTTNVT HAAYSIMYAG FSSFLILATV LCNVLVCGAL LPMHRQFMRR TSLGTEQHA AAAASVASRG HPAASPALPR LSDFRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLV RVFVNQLYQP SLREVSXNP DLQAIRASV NPILDPWYI LRKTVLSKA IEKIKLFCR IGSSRRERSG QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLIPDLS LPDLSNGLG GRNLLPGVPG MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET LNLSEKCI </p>	Homo sapiens

gtctcctgca gctgcgcttc ttcaaacac aactgccag acggaaaacc ggctttccgt
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tcaataaatt atttttctc tgaataattt gtgtgtgatt gcacaataaa taatttttag
agaaacaaag gctctttctc agcacattga tgggcaacta gaattacagc agtttcaaac
tctaccatgg ataattgaaa caaacggaag ctacatgcca atgatagggtg caaagaatat
tggcaaaaag tgctttacct tgagccatta ttgtgttcag agaaaaaac aacagaaatc
aatatataaa ttcaaaagact atctgcagct agtgtgttct ttctttacac acatatcac
acagacatca gaaaattctg ttgagagcag gttcatataa ttgttaagt ggcatattct
aaagcctgtg ctaccagtac taagagggga agactggcaa ttgccaagc acttggggat
tatataaca ataaactagg agatcaagag ataataatct ctcccaaat ttccaataa
taattgagac tttttctttg cttgtttgtg taattcaacc aaagaattt caatcccat
tcaaatgtc ctagggtctat cagaaattag ggaaggtagt cctgctttat aataggaaaa
tgtatttctg tataagattt cttgtcttc ataaaaatg ggaattcattt aaaaattaat
cttccctgt taggtgatt tcagattctc taggaaatct ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNSKQLV SPAALLSNT TCQTENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQFRQ P	Homo sapiens
				ttcagatggt ttatttgctt tcagcagaga atttattca tacagtact taagagtgtt gatgtcttgt gaacagagat ataaggaaacc attctccatc cttccttatac atgtcgggta caatgcttct atgaatattt ccatgtattt tgactgggga gaggcattga gaagaaactc tcattcaggg gctccaggat ccttctcctt gaggtctcta aataaatggc agaattcttg ctgtattgcc atgatgtcac cctggccatg tgtactgact tgaggagatc ttgeaacatg gccatgtgca aggttttaag gactgagaga gatgtgtaca tatcttagga gggttatcta tgttatctga gtatatgttt gggtaaccaa attggtctta aaatgatgt taacccaaga agtagacatc aaaaattaaa aaaaaaaaaa aaaa	
299	4051	Proteinase-Activated Receptor 2	NM_005242	PWYILLRKA VLKLYKLAS QCCGVHVISL HIWELSSIXN SLKVAAISES PVAEKSAST cgccccgcc tggggaggcg cgcagcagag gctccgattc ggggcagggtg agagcctgac A tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcgcg gattccccgc gcgccccggc tgggggcttc caggaggatg cggagcccca cgcggcgctg gctgctgggg gcgcccaccc tgcctagcgc ctctctctcc tgcagtggca ccatccaagg aaccaataga tcctctaaag gaagaagcct tattggttaag gttgatggca catcccacgt cactggaaaa ggagttacag ttgaacacagt cttttctgtg gatgagtttt ctgcatctgt cctcactgga aaactgacca cggctctcct tccaatgtgc tacacaaattg tgtttgtggt gggtttgcca agtaacggca tggccctgtg ggtctttctt ttccgaacta agaagaagca cctgctgtg attacatagg ccaatctggc cttggctgac ctctctctctg tcatctgggt cccctgaaag attgcctatc acatacatgc caacaactgg atttatggg aagctctttg taatgtgctt attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtggtg cagaggtatt gggctatcgt gaaccccatg gggcactcca ggaagaaggc aaacattgcc attggcatct cctggcaat atggctgctg attctgctgg tcaaccatccc ttgtatgtc gtgaagcaga ccatcttcat tccctgacctg aacatcacga cctgtcatga tgttttgctt gagcagctct tgggtggaga catgttcaat tacttctctc ctctggccat tggggctctt ctgttcccag cctctctcac agcctctgct tatgtgctga tgatcagaat gctgcgatct tctgcccattg atgaaaactc agagaagaaa aggaagaggg ccatcaaaact cattgtcact gtcctggcca tgtacctgat ctgcttcaat cttagtaaac ttctgcttgt ggtgcattat ttcttgatta agagccaggg ccagagccat gtctatgccc tgtacattgt agccctctgc ctctctaccc ttaacagctg catcgacccc ttgtctatt acttgtttc acatgatttc agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gcaactgtaaa gcagatgcaa gtatccctca cctcaaaaga acactccagg aaatccagct cttactcttc aagttcaacc actgttaaga cctcctattg agttttccag gtcctcagat gggaattgca cagtaggatg tggaacctgt ttaattgtat gaggacgtgt ctgttatttc ctaatacaaaa aggtctcacc acataccacc g	Homo sapiens
300	4051	Proteinase-Activated Receptor 2	NP_005233.2	GAAILLAASL SCSTGIQTN RSSKGRSLIG KVDGTSHTVG KGVTVEIVFS P VDEFSASVLT GKLTIVFLPI VYTIVFVGL PSNGMALWVF LFRTKKKHPA VIYMANLALA	Homo sapiens

Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI LIIHHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cgggaggaga tcaactgctg cccgcagac cctgtccct tcctccggga A ccagcagcta gaggatgtcc aaacggagtt ggtgggtctg atccagaaag ccccaagag agatgctgaa actctcaggc tctgactcca gcaaaagcat gaatggcctt gaagtggctc ccccaggtct gatcaccaac ttctccctgg ccacggcaga gcaatgtggc caggagacgc cactggagaa catgctgttc gctcccttct acctctgga ttttatcctg gctttagtgg gcaataccct ggctctgtgg ctttcatcc gagaccacaa gtccgggacc cgggccaacg tgttccctgat gcactgtggc gtggccgact tgtcgtgctg gctggctcctg ccacccgct tgggttacca cttctctggg aaccactggc catttgggga aatgcgatgc cgtctcaccc gcttccctct ctacctcaac atgtacgcca gcatctact cctcacctgc atcagcgccg accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg cacacctggc ctgtgcttct ctgtgggtgg tgggtgctgt ggcctatggc ccgctgctgg tgagcccaca gacgtgagc accaaacaca cgggtggtctg cctgcagctg taccgggaga aggctcccca ccctgcccctg gtgtccctgg cagtggcctt cacttcccg ttcatcaca cgggtcacctg ctacctgctg atcatccgca gctgcggca gggcctgctg gtggagaagc gcctcaagac caaggcagtg cgcattgatg ccatagtgtg ggcctatctt ctggtctgct tcgtgcccta ccacgtcaac cgtctcgtct acgtgctgca ctaccgcagc catggggcct cctgcggcac ccagcgcctc ctggcccctg caaacgcgat cactcctgc ctacacagcc tcaacggggc actcgacccc atcatgtatt tcttcgtggc tgagaagtct cggcacgccc tgtgcaactt gctctgtggc aaaaggctca agggcccgc cccagcttc gaaggga ccaacgagag ctcgctgagt gccaagtctg agctgtgagc gggggcgccg gtccaggccg agcgcagact gtttaggact cagcagacc cagcagacc atctgccct tccccagcca cctccccagc aagcaacctg aaatctcagc agatgccac cattctcta gatcgctag tctcaaccca taaaaggaa gaactgacaa aggggatcca tgggcaaccc ctctgcaggg gcttgtgatg gctacaatgg ctcttagaca ctcaacgact tcactgtggc cagggagaga ggaggccgga agacaaccc ctgaacaatg gaggccttct tttcccgcta ggtcccagc ctccttcccg ctacagaatc gctcatcggc gaggtcagc agaaagacc tgaaggcagg ctgcaaatga cccagaaag ggacctggga gtccgtgtgg ggaagggtga ggaagtctca tactcctttg cagcgaagg tactctgagt cccctctgta gtgctctgc cagacacaca ctgcctgagt tgaagagaca caggccacac atttcaggct ggttgcagc ggacgtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctctct gctgtaaccc cagcacaag cctgcaaccc ccagagctct ttgacaggct cccaggcctc ccagtccctg acaagcatgt gcagtcacgg gagctcagct caggccaggc ctgggctgtg cactgcctc ccactgaccc agaccactt cctccagaga ggcctctctc cgcctgagct atttccctg ctagtgtgca gatatttccc taacatgtcc ttttttgtat ttgtttgtac ggaccataaa tataactgta gctttaagac taataaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWWAGS RKPPREMLKL SGSDSSQSMN GLEVAPPGLI TNFSLATAEQ CGQETPLENM P LFASFYLLDF ILALVGNLTA LWLFIRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF SGNHWPFGEI ACRLTGFLFY LNMYSIYFL TCISADRFLA IVHPVSLKL RRPLYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVFT FPFITVTTCY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	LSAKSEL	<p> LLIIRSLRQG LRVEKRLKTK AVRMIIVLA IFLVCFVPYH VNRSVYVLHY RSHGASCATQ RILALANRIT SOLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGPPP SFEGKTNES agagtcatacc agctggagcc ctgagtggct gagctcagcc cttcgcagca ttcttgggtg A ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggccttaact tctacgtgcc cttctccaat gcgacgggtg tggtaacgag ccccttcgag taccacagt actacctggc tgagccatgg cagttctcca tgcggccgc ctacatgttt ctgctgatcg tgctgggctt ccccatcaac ttctcaccg tctacgtcac cgtccagcac aagaagctgc gcacgctct caactacatc ctgctcaacc tagccgtggc tgacctcttc atggtcctag gtggcttcac cagcaccttc tacacctctc tgcattgata cttcgtcttc gggcccacag gatgcaattt ggagggtctt ttggccacc ttggtgggtg aattggcctg tggtccttgg tggctcctggc catcgagcgg tacgtgggtg tctgtaagcc catgagcaac ttccgcttcg gggagaacca tggcatcatg ggcgttgctt tccctgggtt catggcgtg gctgcccgcg caccctact cgcgggtgg tccaggtaca tccccgagg tccgagtg cgtgtggaa tgcatacta cagctcaag ccgaggtaca acaacagtc ttctgtcatc tacatgttcg tggctcactt caccatccc atgattatca tcttttctg ctatgggcag ctgctctca ccgtcaagga ggcgctgccc cagcagcagg agtcagccc cacacagaag gcagagaag aggtcaccgc catgttcac atcatgttca tgcgttctt gatctgctgg gtgcccctacg ccagcgtggc attctacatc ttcccccacc aggcctccaa cctgtctatc tatatcatga ccatccagc gttcttggc aagagcgccg ccactatcaa cctgtctatc tatatcatga tgaacaagca gtccggaaac tgcatgtcca caccatctg ctgcccgaag aaccactgg gtgacgatga ggcctctgct accgtgtcca agacgagagc gagccagggtg gccccggcct aagacctgcc taggactctg tggccgacta taggcgtctc ccatccctca cacttcccc cagccacagc catccacca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt tttttttttt ttaagaaata attaatgagg ctctcactc acctgggaca gctgagaaag ggacatccac caagacctac tgatctggag tcccacgttc ccaaggcca gcgggatgtg tgccccctct cctcccaact catctttcag gaacacgagg attcttgctt tctggaaaag tgtcccaact tagggataag tgtctagcac agaattgggc acacagtagg tgcttaataa atgctggatg gatgcaggaa ggaatggagg aatgaatggg aaggagaaac atatctatcc tctcagacc tcgcagcagc agaaactcat acctggctaa tgatatggag cagttgtttt tccctccctg ggcctcactt tcttctccta taaaatggaa atcccagatc cctggctcctg ccgacacgca gctactgaga agaccaaaa aggtgtgtgt gtgtctatgt gtgtgtttca gcacttttga aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctctgat agtgaacatt ttgagattgg gcattcagat gatgggggtt caccacaact tggggcagggt ttttaaaaaa tagctaggca tcaaggcccag accagggctg ggggttgggc tgtaggcagg gacagtaca ggaatgcagg atgcagtcac cagacctgaa aaacaacac tggggggagg gacgggtgaa ggccaagtcc ccaatgaggg tgagattggg ctgggggtct cacccttagt gtggggcccc aggtcccggt cctcccttc ccaatgtggc ctatggagagc acaggccttt ctctcagcct ctggaagcca cctgctcttt tgctctagca cctggtccc agcatctaga gcatggagcc tctagaagcc atgctcacc gccacattt aattaacagc tgagtccctg atgtcatcct </p>	Homo sapiens
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306	4254	Rhodopsin	NP_000530.1	MNGTEGPNFY VPFENATGVV RSPFEYPOYY LAEPWQFSML AAYMFLILVL GPFINFLTLY P VTVQHKKLRT PLNYILLNLA VADLFVVLGG FTSTLYTSLH GYFVFGPTGC NLEGFFATLG GEIALWSLVV LAIERYVWVC KPMNSNFRFGE NHAIMGVAFT WYMALACAAP PLAGWSRYIP EGLQCSGID YYTLKPEVNN ESFVIYMFVV HFTIPMIIF FCYQQLVFTV KEAAQQQES ATTQKAEKEV TRMVIIMVIA FLICWVPYAS VAFYIFTHQG SNFGPIEMTI PAFFAKSAAI YNPVIYIMMN KQFRNCMLTT ICCGKNPLGD DEASATVSKT ETSQVAPA	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	agagacagct gggccactgg cagtgaggga gagtgaggat ggcagagacc agtgccctgc A ccactggctt cggggagctc gagtgctgg ctgtggggat ggtgctactg gtggaagctc tctccggctt cagctcaat accctgacca tcttctctt ctgcaagacc cggagctgc ggactccctg ccactactg gtgctgagct tggctcttgc ggcagtgagg atcagcctga atgcccctgt tgcagccaca tccagccttc tccggcgctg gccctacggc tccggacggc gccaggctca cggcttccag ggtttgtga cagctgttgc cagcatctgc agcagtgcag ccatcgcatg gggcgcttat caccactact gcaccccttag ccagctggcc tggaaactcag ccgtctctct ggtgctcttc gtgtgctgt ctctctgctt ctggcgagct ctgccccctc tgggttgggg tcaactatgac tatgagccac tggggacatg ctgcacccctg gactactca agggggacag aaactcacc agcttctct tccactatgt ctcttcaac ttcgcccctgc ccctcttcat cagatcact tctacagtc tcatggagca gaaactgggg aagagtggcc atctccaggt aaacaccact ctgccagcaa ggacgtgtgt gctcggctgg gggccctatg ccatccctga tctatacgca gtcactgcag acgtgacttc catctcccc aaactgcaga tgggtccccg cctcattgcc aaaaatgtgc ccacgatcaa tggccatcaac tatgcccctgg gcaatgagat ggtctgcagg ggaatctggc agtgctcttc accgagaaag agggagaagg accgaaccaa gtgagcctgc caccctggag tgagccccag gccaggaggc tgttccagg gtcctgcccc gcagcctcgg tggccaaagg cagacactca cccaccttc ccagtggccc cgtggatcct ggtcctaggc tggacacagg attcagaaag acaccaggct gcacagaaag agccagatgg acctgagtgt cggtcacagc cccctacact caagctgag aggcctcagg aaagtcattc ctttttaaaa ataataataa atgtaagggg gtacagtga gttttgttac atggatagat tgcctagtg tgaagtctgg gcttttagtg taaccatcac cctaataata tacgttgtac ccattaagt atttctatc cctcaccctc tcccacctg tcacctctt gagtctccaa tgtctatat tccacactcc atgtccactg gtacacatta tttagctccc acttacaagt gagaacatgt ggtatttgac ttcca	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	MAETSALPTG FGELEVLAVG MVLLVEALSG LSLNTLTIFS FCKTPELRTP CHLLVLSLAL P ADSGISINAL VAATSSLLRR WPYGSDGCQA HGFQGFVTAL ASICSSAAIA WGRYHHYCTR	Homo sapiens

309	4321	Coupled Receptor RPE	Secretin Receptor	NM_002980	SQAWNSAVS LVLFWLSSA FWAALPLLGW GHYDYEPLGT CCTLDYSKGD RNFTSFLFTM SFFNFAMPLF ITITSYSLME QKLGKSGHLQ VNTTLPARTL LLGWGPYAIL YLYAVIADVT SISPKLQMPV ALIAKMPVTI NAINYALGNE MRCRGIWQCL SPQKREKDR K	Homo sapiens
					acgaggccg cgggagccg ggacccctgc cggggcgcg agtccccg cggcagag A gcacgggacg cgggagctg ggggcccctc ggggaacgtg cgggacacat cggccccac ctgtcgccg cgtgcagca gctactactg ccgtgtcgc tcgctgcgc cgcgcactcg actggagccc tccccgact atgtgacgtg ctacaagtgc tgtgggaaga gcaagaccag tgcctgcagg aactctccag agagcagaca ggagacctgg gcacggagca gccagtcca ggttgtgagg ggtgtggga caacataaagc tgcctggccc cttctgtgccc gggccggatg tgaggagtg aatggccgag attctccgg atgctacca gcagaaatgg ttcctgttcc cgaaactgca cacaggatgg ctggtcagaa accttcccc ggctaatact ggcctgtggc gttaaatgta acgactcttc caacgagaag cggcactcct acctgctgaa gctgaaagt atgtacaccg tgggtctacag ctctccctg gtcactgccc tggtcgccc tggcatcctc tgtgtcttcc ggaggctcca ctgcactgc aactacatcc acatgcacct gttcgtgtcc ttcatccttc gtgcccgtgc caacttcac aaggacgccc tgcctcttc ctcagatgat gtcacctact gcgactccga caggggcgcc tgcaagctgg tcatggtgct gtccagttac tgcatcatgg ccaactactc ctggctgctg gtggaaggcc tctacctca cacactcctc gccatctcct tcttctctga aagaaagtac ctccaggat ttgtggcatt cggatggggt tctccagcca ttttctgtgc tttgtgggtc attgccagac accttcttga agatgttggg tgctgggaca tcaatgccaa cgcattccatc tgggtgata ttcgtgtgccc tgtgactcct tccatctga tcaatttcat ccttttcata aacattctaa gaacactgat gagaaactt agaacccaag aacaagagg aaatgaagtc agcatttata agcgcctggc caggccact ctcctgtga tccccctct tggcatccac tacatcgctc tgccttctc cccagaggac gctatggaga tccagctgtt tttgaaacta gccctggct cctccaggg actggtggtg gccgtcctct actgcttct caatggggag gtgcagctgg aggtcagaa gaagtggcag caatggcacc tccgtgagtt cccactgcac cccgtggcct cctcagcaa cagaccaag gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcaggggtcac ccacggacag agaccaagag aggtcctgc aggtctggc actgctgtg gacagccagt ctcccagca gacacctgt gtcctcctc agctgaagat gcccctccc aggccttgga ctctccgaa gggatgtgag gcactgtgg gcaagacaa ggcctggat ttggttcgtt tgcctctctg ggaagagaag ttcagggggtc ccagaaagg acagggaaat aaatggtgcc tgggatgaga ttc	
310	4321	Secretin Receptor	NP_002971.1		MRPHSPPLQ QLLPVLILAC AAHSTGALPR LCDVLQVLWE EQDQLQELS REQTGDLGTE P QVPFCEGMW DNISCWSSV PGRMVEVECP RFLRLTSRN GSLFNCTQD GWSETFPRPN LACGVNDS SNEKRHSYLL KLKMYTVGY SSSLVMLVA LGILCAFRRL HCTRNYIHM LFVFSILRAL SNFIKDAVLF SSDDVTYCDP HRAGCKLMV LFQYCIANY SWLLVEGLYL HTLLAISFFS ERKYLQGFVA FGWGSPIFV ALMAIARHEL EDVGCWDINA NASIWIIRG PVLSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLIPL FGIHYIVFAF SPEDAMEIQL FFELALGSFQ GLVAVLYCF LNEVQLEVQ KKWQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCRTSII	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgttcccca atggcaccgc ctctctctct tctctctctc ctagcccccag cccgggcagc A tgcggcgaag gcggcgagcag caggggcccc ggggcccggc ctgcccagcg catggagag ccaggcgcaa atgcgtccca gaacgggacc ttgagcgagg gccaggcgag cgccatcctg atctctttca tctactccgt ggtgtgcctg ttggggctgt gtgggaactc tatggtcac tactgtacc tgcgtatgc caagatgaag acggccacca acatctacat cctaaatctg gccattgctg atgagctgct catgctcagc gtgccttcc tagtcacctc cagtttctg cgccactggc ccttcggtgc gctgctctgc gcctctgc tcaagctgga cgcggtcaac atgttcacca gcctctactg tctgactgtg ctacgctgg accgtactgt ggccgtggg catcccatca aggcggcccc ctaccggcg cccaccgtgg ccaagtagt aaacctggc gtgtgggtgc tatcgtgct cgtcatctg cccatcgtgg tcttctctg caccggcc aacagcgacg gcacgtggc ttgcaacatg ctcatgccag agcccgctca acgctggctg gtgggcttcg tgtgtacac atttctcatg ggcttctgc tgcctggg ggctatctgc ctgtgctacg tgcctcatct tgcctaatg cgcctgctgg cctcaaggc cggctggcag cagcgcaagc gctcgagcg caagatcac ttatgtgtga tgatgtgtgt gatgtgttt gtcatctgct gtagccttt ctacgtgtg cagctgttta acgtgtttgc tgagcaggac gagccacgg tgagtcagct gtcggtcacc ctggtctatg ccaacagctg cgccaaaccc atctctatg gcttctctc agacaactc aagcgtctt tccaaagcat cctatgcctc agctggatgg acaagccgc ggaggagcg gttgactatt acgcccacgc gctcaagagc cgtgcctaca gtgtggaaga cttccaaact gagaacctgg agtccggcg cgtcttccgt aatggcacct gcacgtccc gatacagac cctctga ISFIYSVVCL VGLCGSNMVI YVILRYAKMK TATNIYILNL AIADELLMLS VPFLVTSTLL P RHWFFGALLC RLIVSVDAVN MFTSIYCLTV LSVDRYAVR VPIKARYRR PTVAKVNLG VWVLSLLVIL PIVFSTRAA NSDGTACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLLIAKM RMVALKAGWQ QKRKSERKIT LYGFLLSDNF VICWMPFYV QLVNVEAEQD DATVSQLSVI LGYANSCANP ILYGFLLSDNF KRSFQRILCL SWMDNAAEEP VDIYATALKS RAYSVEDFQP ENLESGGVER NGTCTSRIT L	Homo sapiens
312	4480	Somatostatin NP_001040.1 Receptor Type 1	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtggtgtc aaccaacacc tcaaacaccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatactgg ttgtgtggtg aacacacttg tcatttatgt cctcctccgc tatgccaaga tgaagaccat caccacatt tacatcctca acctggccat cgcagatgag ctcttcatgc tgggtctgccc ttcttggct atgcaggtgg cctctggtcca ctggcccttt ggcaaggcca ttgtccgggt ggtcatgact gtggatggca tcaatcagtt caccagcatc ttctgcctga cagtcatgag catcgaccga tacctggctg tggtcaccc catcaagtgc gcaagtgga ggagaccocg gacggccaag atgatcacca tggctgtgtg gggagtctct ctgctggtca tcttgcccat catgatatat gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaactg gccaggtgaa tctggggctt ggtacacagg gttcatcatc tacatttca ttctggggtt cctggtaacc ctcaccatca tctgtctttg ctacctgttc attatcatca aggtgaagtc ccttggaatc cgagtgggct cctctaagag gaagaagtct gagaagaagg tcaccgaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaacgt ttcttccgtc	Homo sapiens
313	4481	Somatostatin NM_001050 Receptor Type 2		Homo sapiens

314	4481	Somatostatin NP_001041.1 Receptor Type 2	<p> tccatggcca tcagcccccac ccagccctt aaaggcatgt ttgactttgt ggtggtcctc acctatgcta acagctgtgc caacctatc ctatatgctt tcttgtctga caacttcaag aagagcttcc agaagtctct ctgcttggtc aaggtgagcg gcacagatga tgggagcgcg agtgcacagta agcaggacaa atcccggtg aatgagacca cggagaccca gaggacccctc ctcaatggag acctccaaac cagtattcga MDMADEPLNG SHTWLSIPFD LSGSVVSTNT SNQTEPYDYD TSNAVLTFIY FVVCIIIGCG P NTLVIYILR YAKMKTITNI YILNLAIAD E LFMGLPFLA NQVALVHWPF GKAI CRVVMVT sapiens VDGINQFTSI FCLTVMSIDR YLAVVHPIKS AKRRRPRTAK MITMAVWGVS LLVILFIMIY AGLRSNQWGR SSGTINWPGE SGAWYTGFI YTFILGFLVP LTIICLCYLF IILVKSSGI RVGSSKRKKS EKKVTRMVS I VVAVFIECWL PFYIFENVSS SMAISPTPAL KGMFDFVVVL TYANSCANPI LYAFLSDNFK KSFQNVLCIV KVSGTDDGER SDSKQDKSRL NETTETQRTL INGDLQTSI </p>	Homo sapiens
315	4482	Somatostatin NM_001051 Receptor Type 3	<p> atggacatgc ttcatccatc atcggtgtcc agacactcag aacctgagaa tgcctctctg A gcttggtccc cagatgccac cctgggcaac gtgtcggcg gcccaagccc ggcagggtcg gccgtcagtg gcgttctgat cccctggtc tacctgggtg tgtgctgtgt ggcctgtgtg ggtaactcgc tggatcatc taactctga gctggcgcac gagctcttca tgtgtgggtt gccctctctg gtctacatcc tcaactggc gctggcgcac ctaactggcc ttgggtccc teatgtgccg cctgtctatg gccgccaga agccctgtc gcatcaacca gtccaccagc atattctgcc tgactgtcat ggcgtggac gcggtggatg cgtggtaca tcccaccgc tcggcccgct ggcgcacagc tccggtggcc cgtaacctgg cgtggtgtg gtgggtggc tcagccgtg tgggtgtctg cgtgtgtgtg cgacaggtca ggcgggtgt catgagacc tcagccatgc agtggccccg gccggcggtg ttctcggtg gctggcgcac gctcactgt gctcactgt gctcactgt gccgtctctg gcctggcgag cgggttcat catctacac gccgcactgc gcttctctg gccgtctctg gtcactgtcc tctgtacct gctcactgt gctcactgt gctcactgt gccgtctctg tgggcacct cgtgccagcg gcgcggcg gctcactgt gctcactgt gccgtctctg gccgtgtgtg cgtctctgt gctcactgt gctcactgt gctcactgt gccgtctctg gtgtgtgtcc cactgcccga ggagcctgc ttctttggc tctacttctt ggtgtgtgtg ctgcccctatg ccaacagctg tgccaacccc atcctttatg gcttctctc ctaccgttc aagcagggtt tccgcagggt cctgctgcg cctcctccgc gtgtgcgcag ccaggagccc actgtgggc ccccgagaa gactgaggag gaggatgagg agggaggagg tggggaggag agcaggagg ggggcaagg gaggagatg aacggccggg tcagccagat cacgcagctt ggcaccagcg ggcaggagcg gccgccagc agagtggcca gcaaggagca gcagctccta ccccaaagg cttccactg ggagaaagtc agcacatgc gcacagcta cctgtag MDMLHPSSVS TTSEPNASS AWPDPATLGN VSAGPSPAGL AVSGVLIPLV YLVVCVVGLL P GNSLVIYVVL RHTASPSVTN VYILNLALAD ELFMGLPFL AAQNALSYPF FGSIMCRILVM sapiens AVDGINQFTS IFCLTVMSVD RYLAVVHPIR SARWRTPVA RTVSAAVMVA SAVVLPVVV FSGVPRGMST CHMQWPEPAA AWRAGFIIT AALGFFGPLL VICLCYLLIV VKVRSAGRRV WAPSCQRRRR SERRVTRMV AVVALFVLCW MFFVNLINIV VVCPLEEPA FFGLYFLVVA LPYANSCANP ILYGFLSYRF KQFRRVLLR PSRRVRSQEP TVGPPKTEE EDEEEEDGE SREGGKGKEM NGRVSQITQP GTSGQERPPS RVASKEQQLL PQEASTGEKS STMRI SYL </p>	Homo sapiens
316	4482	Somatostatin NP_001042.1 Receptor Type 3	<p> GNSLVIYVVL RHTASPSVTN VYILNLALAD ELFMGLPFL AAQNALSYPF FGSIMCRILVM sapiens AVDGINQFTS IFCLTVMSVD RYLAVVHPIR SARWRTPVA RTVSAAVMVA SAVVLPVVV FSGVPRGMST CHMQWPEPAA AWRAGFIIT AALGFFGPLL VICLCYLLIV VKVRSAGRRV WAPSCQRRRR SERRVTRMV AVVALFVLCW MFFVNLINIV VVCPLEEPA FFGLYFLVVA LPYANSCANP ILYGFLSYRF KQFRRVLLR PSRRVRSQEP TVGPPKTEE EDEEEEDGE SREGGKGKEM NGRVSQITQP GTSGQERPPS RVASKEQQLL PQEASTGEKS STMRI SYL </p>	Homo sapiens

317	4483	Somatostatin Receptor Type 4	NM_001052	atgagcgccc cctcgacgct gcccccgagg cgtcccgagg ggcgaggaag ggctggggac ggctggcccc A	Homo sapiens
				tctgcagcca atgccagtag cgtcccgagg gaggcggagg aggcgggtggc gggcgccggg	
				gacgcgggg cgccgggcat ggtcgctatc cagtgcattc acgcgctggt gtgcctggtg	
				gggtggtgg gcaacgccct ggtcatcttc gtgaccttc gctacgcca gatgaagacg	
				gctaccacca tctacctgct caacctggcc gtgacgacg agctcttcat gctgagcgtg	
				cccttcgtgg cctcgctggc cgcctggcc cactggccct tcggctccgt gctgtgcgcg	
				gcggtgctca gcgtcgacgg cctcaacatg ttcaccagcg tcttctgtct caccgtgctc	
				agcgtggacc gctacgtggc cgtggtggac cctctgcgc cggcgaccta cggcgggccc	
				agcgtggcca agtcatcaa cctgggctgtg tggctggcat cctgttgggt cactctccc	
				atgcctatct tcgcagacac cagaccggct cgcggcgccc aggcgctggc ctgcaacctg	
				cagtggccac acccgccctg gtccgacgtc ttctggtgtt acactttcct gctgggcttc	
				ctgctgccc tggctggccat tggcctgtgc tacctgtcga tegtgggcaa gatgcgcgc	
				gtggccctgc gcgtggctg gcagcagcgc aggcgctcgg agaagaaat caccaggctg	
				gtgctgatgg tctgtgtcgt ctttgtgttc tgcgtgatgc ctttctacgt ggtgcagctg	
				ctgaacctcg tctgacccag ccttgatgc accgtcaacc acgtgtccct tatectcagc	
				tatgccaaca gctgcgcaa cctattctc tatggcttc tctcgcaca cttccggcca	
				tccttcagc ggttctctg cctgcgctgc tgcctcctgg aagtgctgg agtgctgag	
				gaggagcccc tggactacta tggcaactgt ctaagagca aagtggggc aggtgtcatg	
				tgccccccac taaatgcc aaggaagcc ctgcaaccag aaccgggccg caagcgcatc	
				ccctcacc a ggcaccac cttctga	
318	4483	Somatostatin Receptor Type 4	NP_001043.1	MSAPSTLPPG GEEGLTAMP SAANASSAPA EAEEAVAGPG DARAAGMAI QCIYALVCLV P	Homo sapiens
				GLVGNALVIF VILRYAKMT ATTLYLNL VADELFMLSV PFVASSAALR HWPFGSVLCR	
				AVLSVDGLNM FTSVFLTVL SVDRYVAVVH PLRAATYRR SVAKLINLGV WLASLLVTLR	
				IAIFADTRPA RGGQAVACNL QWPHPAWSV FVYTFLLG LLPVLAIGLC YLLIVGKMRA	
				VALRAGWQQR RRSEKKITRL VLMVVVFLV CWMFFYVQL LNLVTSIDA TVNHVSLIS	
				YANSCANPIL YGFLSDNERR SFQVLCIRC CLLEGAGGAE EEPLDYATA LKSKGGAGCM	
				CPPLKCQQA LQPEGRKRI PLRTTTF	
319	4484	Somatostatin Receptor Type 5	NM_001053	atggagcccc tgttccagc ctcacgccc agctggaacg cctcctcccc gggggctgcc A	Homo sapiens
				tctggaggcg gtgacaacag gacgtggtg gggccggcg cctcggcagg gggcgggcg	
				gtgctggtgc cgtgtgtgta cctgctggtg tbtgcggcg ggtgggctg gaacacgtg	
				gtcatctacg tgggtgtgctg cttcgccaa atgaagaccg tcaccaacat ctacattctc	
				aacctggcag tggcgcagct cctgtacatg ctggggctgc ctttcttggc cagcagaac	
				gcgcgtcct tctggccctt cggcccccgc cgtgcccgc tggctcatgac gctggacggc	
				gtcaaccagt tcaccagtgt cttctgcctg acagtcatga gcgtggaccg ctacctggca	
				gtggtgcacc cgtgagctc ggcgcgctgg cgcgcgcccgt gtgtggccaa gctggcgagc	
				gcgcggcctt ggttctctgc tctgtgcatg tcgctgcccgc tcttcttggc cgcggacgtg	
				caggagggcg gtacctgcaa cgcagctgg cggagacccg tggggctgtg gggcgccgtc	
				ttcatcatct acacggcctt gctgggcttc ttcgcgcgc tgcgtgtcat ctgcctgtgc	
				tacctgtca tctgtgtgaa ggtgagggcg gcgggctgtgc gctgggctg cgtgcggcgg	
				cgtcggagc ggaaggtgac gcgcatggtg ttggtggtg ttgctggtgtg tgcgggatgt	
				tggctgccct tcttcacctt caacatcgtc aacctggccg tggcgctgcc ccaggagccc	

320	4484	Somatostatin NP_001044.1 Receptor Type 5	MEPLFPASTP SWNASSPGAA SGGGDNRTLV GPAPSAGARA VLVPVLYLLV CAAGLGGNTL P VIYVLRFAK MKTVTNIYIL NLAVADVLM IGLPFLATQN AASFVFPFPGPV LCRLVMTLDG VNQTSVFCL TMSVDRYLA VVHPLSSARW RRPVAKLAS AAAMVLSLCM SLPLLVEADV QEGGTCNASW PEPVGLMGAV FIITYAVLGF FAPLLVICLC YLLIVVKVRA AGVRVGCVR RSEKVTVMV LVVVLVFAGC WLPEFTVNIV NLAVALPQEP ASAGLYFFV ILSYANSCAN PVLVGLFLSDN FRQSFQKVIC LKRGSGAKDA DATEPRPDRI RQQEATPPA HRAAANGLMQ TSKL	Homo sapiens
321	4552	Tachykinin NM_001058 Receptor 1	aattcagagc caccgggggc aggcggggcag tgcattccaga agcgtttata ttctgagcgc A cagttcagct ttcaaaaaga gtgctgccc taaaaagcct tccacctcc ttctgcttt agaaggacc tgagcccccag gcgccagcca caggactctg ctgcagaggg ggttggtgta cagatagtag gctttacgcc tagcttcgaa atggataacg tctcccggt ggactcagac cttcccccac acattccac taacacctg gaacccaatc agttcgtgca accagcctgg caaatgttcc ttggggcagc tgcctacacg gtcatgtgtg tgacctctgt ggtgggcaac gtggtagtga tgtggatcat cttagccccc aaagaatga ggacagtgc gaactatctt ctggtgaacc tggccttcgc ggaggcctcc atggctgcat tcaatacagt ggtgaacttc acctatgtg tccacaacga atggctactc cgcagttatc tactccatga cggctgtggc cttgatagg tttcccatcg ccgctgtctt cgcagttatc tactccatga cggctgtggc cttgatagg tacctggcca tcatacatcc cctccagccc cggctgtcag ccacagccac caaagtggc atctgtgtca tctgggtcct ggctctcctg ctggccttcc cccagggcta ctactcaac acagagacca tgcccagcag agtcgtgtgc atgatcgaat ggccagagca tccgaacaag atttatgaga aagtgtacca catctgtgtg actgtgtgta tctacttct cccctgctg gtgattggct atgcatacac cgtagtggga atcacactat ggcccaatga gatccccggg gactcctctg accgctacca cgagcaagtc tctgccaaag ccaaggtggt caaatgatg attgtcgtgg tgtgcacatt cgcctatcgc tggctgcctt tccacatctt ctctcctg ccctacatca accagatct ctacctgaag agtttattcc agcaggtcta cctggccatc atgtggctgg ccatagctc caccatgtac aaccccatca tctactgctg cctcaatgac aggttccgctc tgggcttcaa gcattgcctc cgggtgtgccc ccttcatcag cgccggcgac tatgaggggc tggaaatgaa atccaccgg tatctccaga cccagggcag tgtgtacaaa gtcagccgcc tggagaccac catctccaca gtggtggggg cccagagga ggagccagag gacggcccca aggccacac ctgctccctg gacctgacct ccaactgctc ttcacgaagt gactccaaaga ccatacacga gacttccagc ttctctcca atgtgctctc ctaggccaca gggctttgg caggtgcagc cccactgccc tttagacctg cctccttcat gcatggaaat tcccttcac tggaaaccac agaaacccc tcaacatggg acttgcaaaa aggttcagta tgggttaggg aaaaattcc atccttgagt caaaaaatct caattcttcc ctatctttgc caccctcatg ctgtgtgact caaaccaaat ctgtgagcct tgctgagcct gtaaaaaaa aggtcgacc agcttttctt caagagccca atgcattcca ttcttggaag tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	tgcatgcgag tgctcatttc aggatg	QIVLWAAAYT VIVVTSVVG N VVVMWIIAH P	Homo sapiens
				MDNVLPVDS LSNISTNTS EPNQFQPAW	GLFYCKEHN FPIAAVFASI	
				KRMRTVTNYF LVNLAFAEAS MAEFNTVNE	TYAVHNEWY LAFPGQYST TETMPSRVVC	
				YSMTAVAFDR YMAIHPLOP RLSATAKVV	ICVIWLLAL IWLASEIPG DSSDRYHEQV	
				MIWPEHPNK IYKVVHICV TVLIYFLPLL	VIGYAYTVG KFIQQVYLAI MWLAMSSTMY	
				SAKRKVVM IVVCTFAIC WLPEHIFLL	YYNPDLK YLQTQGSVYK VSRLETIST	
				NPIIYCLND RFLGFKHAF RCCPFISAGD	YEGLEMKSTR FSSNVLS	
				VVGAHEEPE DGPKATPSSL DLTSNCSSRS	DSKTMTEFS	
323	4687	Thrombin Receptor	NM_001992	ggcggggggc gcacagagcc agaggggctt	gcgagcgcg gctgaggggc cgcggggagg A	Homo sapiens
				ggcgcccgag cggctccagc gcagagactc	tcactgcag ccggaggccc ctctctcgct	
				ccgcccgcgc gacggcggc cccagtcctg	ccccgcccc ctaaccgccc cagacacagc	
				gctgcgcgag ggtcgcttg accctgatct	taccctggg caccctgcgc tctgctgccc	
				gcgaagaccg gctccccgac ccgcagaagt	caggagagag ggtgaagcgg agcagcccga	
				ggcggggcag cctccggag cagcgccgg	cagagccccg gacaatgggg ccgcggcgcc	
				tgctgctggg ggcgcctgc ttcagctctg	gcggccctg gttgtctgccc cgcacccggg	
				ccgcaggcc agaatacaaa gcaacaaatg	ccaccttaga tccccgtca tttcttctca	
				ggaaccccaa tgataaatat gaaccatttt	gggaggatga ggagaaaaat gaaagtgggt	
				taactgaata cagattagtc tccatcaata	aaagcagtc tctcaaaaa caacttctg	
				cattcatctc agaagatgcc tccggatat	tgaccagctc ctggctgaca ctctttgtcc	
				catctgtgta caccggagt tttgtagtca	gcctccact aaacatcatg gccatcgctg	
				tggtcatcct gaaaatgaag gtcaagaagc	cggcggtggt gtacatgctg caccctggcca	
				cggcagatgt gctgtttgtg tctgtgtcc	cttttaagat cagctattac ttttccggca	
				gtgattggca gtttgggtct gaattgtgtc	gcttctgtac tgcagcatctt tactgtaaca	
				tgtacgcctc tatcttgctc atgacagtca	taagcattga ccggtttctg gctgtgggtg	
				atcccatgca gtccctctcc tggcgtactc	tgggaagggc ttccttcaat tgtctggcca	
				tctgggcttt ggccatcgca ggggtagtgc	ctctcgtcct caaggagcaa accatccagg	
				tgcccgggct caacatcaat acctgtcatg	atgtgtcaa tgaaccctg ctgaaaggct	
				actatgccta ctactctca gccttctctg	ctgtcttctt ttttgtgcc ctgacattt	
				ccacggctg ttatgtgtct atcattegat	gtcttagctc ttcgcagtt gccaacccga	
				gcaagaagtc ccgggctttg ttcctgtcag	ctgctgtttt ctgcattctt atcatttgct	
				tcggaccac aaacgtctc ctgattgcgc	attactcatt cctttctcac acttccacca	
				cagaggctgc ctactttgcc tacctctct	gtgtctgtgt cagcagcata agctcgtgca	
				tcgacccct aatttactat tacgcttct	ctgagtgcga gaggtacgtc tacagtatct	
				tatgctgcaa agaaagtcc gatcccagca	gttataacag cagtggcgag ttgatggcaa	
				gtaaaaatgga tacctgtctc agtaacctga	ataacagcat atacaaaaag ctgttaactt	
				aggaagaggg actgctggga ggttaaaaa	aaaagttaa aaacacacag atgtacgact	
				ttctattagt cccaccccaa actttattga	ttcacctcct aaacacacag atgtacgact	
				tgcatacctg ctttttatgg gagctgtcaa	gcatgtattt ttgtcaatta ccagaaagat	
				aacaggacga gatgacgtg ttattccaag	ggaatattgc caatgctaca gtaataaatg	
				aatgtcactt ctggatatag ctagggtgaca	tatacatact tacatgtgtg tatatgtaga	

324	4687	Thrombin Receptor	NP_001983.1	<p> tgtatgcaca cacaatatatt atttgcaagt9 cagtatatagaa taggcactttt aaaaacactct ttccccgcac cccagcaatt atgaaaaataa ttctctgattc cctgattttaa tatgcaaaagt ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg ctgtaccac ttttgcaat aagtgtattt tgaattgtt tgacggcaag gtttaagtta ttaagaggta agacttagta ctatctgtgc ttagaagtct tagtgttttc aattttaaac atatccaagt ttgaattcct aaaattatgg aaacagatga aaagcctctg ttttgatatg ggtagtattt tttacatttt acacactgt9 cacataagcc aaaactgagc ataagtcctc tagtgaatgt aggtggctt tcagagtagg ctattcctga gagctgcatg tgtccgcccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaacctcct gctgagcctc acagcagtga gactggggcc actacatttg ctccatcctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaagcaga atgtgatc ctaggaggta atgacctga aagacttctc taccatctt aaaaacaacg aaagaaggca tggactctg gatgccatc cactgggtgt aaacacatct agtagttgt ctgaaatgtc agttctgata tggaaagcacc cattatgcgc tgtggccact ccaataggtg ctgagtgtag agagtggaaat aagacagaga cctgcccctc agagcaaaagt agatcatgca tagagtgtag tgtatgtga ataaatatgt ttcacacaaa caaggcctgt cagctaaaga agtttgaaca ttgggtttac tatttctgt ggttataact taatgaaaac aatgcagtagc aggacataata ttttttaaaa taagtctgat ttaattgggc actattttat tacaaatgtt ttgctcaata gattgctcaa atcaggtttt cttttaagaa tcaatcatgt cagctgctt agaaataaca gaagaaataa gaattgacat tgaattctag gaaaattatt ctataattc cattactta agacttaatg agacttttaa agcatttttt aacctcttaa gtatcaagta tagaaaaatct tcatggaatt caaaaagtaa ttggaaatt aggtgaaaac atatctcta tcttacgaaa aaatggtagc attttaaca aaatagaaa tggcaaggca aatgtttatt taaaagagca gccagggcg ggtggctcac gcctgtaac ccagcacttt gggaggctga ggcgggtgga tcacgaggtc agagatcga gacctcctg gctaacacgg tgaaccctg ctctactaaa aatgcaaaa aaattagccg ggcgtggtg9 caggcacctg tagtcccagc tactcgggag gctgaggcag gagactggcg tgaaccacgg aggcggacct t9tagtgagc cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc MGPRRL1LVA ACFSLCGPLL SARTRARPE SKATNATLDP RSFLRNPNP KYEPFWEDEE P KNESGLTEYR LVSINKSPPL QKQLPAFISE DASGYLTSSW LTLFVPSVYT GVFVSLPLN INAIWVFIK MKVKREAVVY MLHLATADVL FVSVLPFKIS YFSGSDWQF GSELCRFVTA AFYCNMYASI LMTVISIDR FLAVVPMQS LSWRTLGRAS FTCLAIWALA IAGVPLVLK EQTIQVPGLN ITTCHDVLE TLLEGYYAYY FSAFSAVFFF VPLIISTVCY VSIIRCLSSS AVANRSKSR ALFLSAVFC IFIICFGPTN VLLIAHYSEL SHTSTEAYY FAYLLCVCVS SISSCIDPLI YYYASSEQR YVYSILCKE SSDPSSYNSS GQLMASKMDT CSSNLNNSIY KKLLT </p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p> tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagct A tcagccacga gcagtggtgg ccttagaata ccagtggtc accatcttac ttgtactcat tattgtggc ctgggcattg taggcaacat catggtagtc ctggtgtgca tgaagaacaa gcacatgagg acccccaca actgctacct ggtgagcctg gcagtagctg atctcatggt cttgggtggc gcaggcctcc ccaacataac agacagtatc tacggttctt gggtctatgg </p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	ctatgttgga tgcctctgca ttacttaact ccagtatttg ggaattaatg catcctcttg ttcaataaca gactttacca ttgagaggta catagcaatc tgtcacccca tcaagccca gtttctctgc acattttcca gagcccaaaa gattatcatc tttgtctggg ctttcacatc tctttactgt atgctctggg tcttcttgct gcatctcaat attagcacct acaagatgc tattgtgata tctgtgggt acaagatctc caggaattac tactcaccta ttactcta ggactttggg tctttttatg ttgtgccaat gatcctgctt accgtcctct atggattcaat agctagaatc cttttcttaa atcccattcc ttcatgctct aaagaaaaact ctaagacatg gaaaaatgat tcaaccatc agaacacaaa tctgaatgta aatacctcta atagatgttt caacagcaca gtatcttcaa ggaagcaggc caccaagatg ctggcagtggt ttgtaattct gtttgcccct ttatggatgc cctacaggac tctagtgggt gtcaactcat ttctctccag tcttttccaa gaaaattggg ttttgctctt ttgcagaatt tgcatttatt tcaacagtg catcaaccg gtgatttaca atctcatgtc ccagaaattc cgtgcagcct tcagaaaagct ctgcaactgc aagcagaagc caacagagaa acctgctaac tacagtgtgg ccctaaatta cagctcatc aaggagtcag accatttcag cacagagcct gatgatata ctgtcactga cacttaacctg tctgccacaa agtgtgttt ttgatgacac ttgttggttt ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaagaaa ttgagaatct gtgcagtcac caacaaaagg gagaacatgg ccaatagta tatgtgaaga cagagcagat cagctcttgg caatgctcta acaaaccc	IVLIICGLGI VGNIMVVLVV MRTKHMRTPT P WVGYVGCIC ITYLQYLGIN ASSCSITAFI AFTSLDINIST YKDAIVISCG YKISRNYYSP IYLMDFGVY VVPMILATVL YGFIARILFL NPIFSDPKEN SKTWKNDSTH VWILFALLWM PYRILVVVNS FLSSPFQENW FRKLCNCKQK PTEKPNYSV ALNYSVIKES SEVSFSQS	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	attcggagct gcctcctcgc caatgattcc agcgcctgac agccaggacc ccaggcagca A gcgagtgaca ggacgtcttg accggcgcgc cgtagcagc tctgccgggc cgcggcgggtg atcgatgggg agcggcttga gcggaccag cgagtggagg cgacagccg ggacgcccag gcggcgggcg ggagaccgc accagcgag cgggccctcg gcgggacgtg acgcagcgcc cggggcgcgg gtttgatatt tgacaaaattg atctaaaatg gctgggtttt tatctgaata actcactgat gccatccag aaagtcggca caaggtgtat ttgatatagt gtttgcaaca aattcgaccc agtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaaaa atcaagatg attgtcccaa agctggaagg cataattaca tatttgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttgggaaca gcttggtggt gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgtttttc ttttgaattt agcactggct gacttatgct ttttactgac ttggccacta tgggtgtgct acacagctat ggaataccgc tgcccttttg gcaattacct atgtaagatt gcttcagcca gcgtcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc attgatcgat acctggcttat tgtcaccca atgaagtccc gccttcgac cacaatgctt gtgcccagg tcacctgcat catcatttgg ctgtggcag gcttggccag ttggccagct ataattccatc gaaatgtatt ttctattgag aacaccaata ttacagtttg tgctttccat tatgagtccc aaatttcaac ccttccgata	attcggagct gcctcctcgc caatgattcc agcgcctgac agccaggacc ccaggcagca A gcgagtgaca ggacgtcttg accggcgcgc cgtagcagc tctgccgggc cgcggcgggtg atcgatgggg agcggcttga gcggaccag cgagtggagg cgacagccg ggacgcccag gcggcgggcg ggagaccgc accagcgag cgggccctcg gcgggacgtg acgcagcgcc cggggcgcgg gtttgatatt tgacaaaattg atctaaaatg gctgggtttt tatctgaata actcactgat gccatccag aaagtcggca caaggtgtat ttgatatagt gtttgcaaca aattcgaccc agtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaaaa atcaagatg attgtcccaa agctggaagg cataattaca tatttgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttgggaaca gcttggtggt gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgtttttc ttttgaattt agcactggct gacttatgct ttttactgac ttggccacta tgggtgtgct acacagctat ggaataccgc tgcccttttg gcaattacct atgtaagatt gcttcagcca gcgtcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc attgatcgat acctggcttat tgtcaccca atgaagtccc gccttcgac cacaatgctt gtgcccagg tcacctgcat catcatttgg ctgtggcag gcttggccag ttggccagct ataattccatc gaaatgtatt ttctattgag aacaccaata ttacagtttg tgctttccat tatgagtccc aaatttcaac ccttccgata	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p> tttggtgtat ggctgtttg tctcattgc caacatttta ttttcgagac gtccagaacca ttgaatactt agagtgaaat gcttgcatat tggctttccc acctgagaaa tatgcccaat ggtcagctgg gattgcctta atgaaaaata tcttgggttt tattatccct ttaatatcca tagcaacatg ctattttgga attagaaaac acttactgaa gacgaatagc tatgggaaga acaggataac ccgtgaccaa gtcctgaaga tggcagctgc tgttgttctg gccttcata tttggtgcct tccctccat gttctgacct tcttgagatg tctggcctgg atgggtgtca ttaatagctg cgaagtata gactcattg acctggcact tccctttggc atccctctgg gattcaccaa cagctgcgtt aatccgtttc tgtattgttt tgttggaac cggttccaac agaagctccg cagtgtgttt aggtttccaa ttacttggct ccaagggaaa agagagagta tgtcttgccg gaaaagcagt tctcttagag aatggagac ctttgtgtct taaacggaga gcaaaaatgca tgtaatcaac atggctactt gctttgaggc tcaccagaat tatttttaag tgggttttaaat aaaaataataa aatttccctt aatcttttct gaatcttctg aaaccaaagt taactatgtt tctgtccag tgactttcag gaatgccccat tgttttctga tatgtttgta caagatttca ttggtgagac atatttaca cctagaagta actggtgata tatctcaaat tgtaattaat aatgagtgtt gaataatgat ttggggatct agatttctct ttgaaacatg cttggttttc ttagtgggtt ttatatcca tttttatcag gatttctctt tgaaccagaa ccagtccttc aactcattgc atcatttaca agacaacatt gtaagagaga tgagcacttc taagttgagt atattataat agattagtag tggattatct aggccttagg catatgcttc ttbaaaaacg ctataaatta tattctctct gcatctcact tgagtggagg ttatagttta atctataact acataatgaa tagggctagg aatatagatt aaatcatact cctatgcttt agcttatttt tacagttata gaaagcaaga tgtactataa catagaattg caatctataa tatttgtgtg ttcactaaac tctgaataag cactttttta aaaaacttct actcatttta atgattgttt aaaggtttct attttctctg atactttttt gaaatcagta aacactgtgt attgttgtaa aatgtaaaag tcacttttca catcctttgac tttttagatg tgctgctttg atatatagga cattgatttg attttatta ttaatgcttt ggttctgggt tgtttcctaa aatatctggg tggcttaaaa aaaactcttt aacttgaat aaaccttaaa ctggcatagg aaatggatc cagaatggaa ttttgctaca tgggggtctgg gtgggggcaa agagaccag tcaattacat gtttggtagc aagaaaggaa ctgtlcaggg cagtacaatg tgactttgaa aatatatacc gtgggggtag ttttacccta tatctataaa cactgtttgt tccagaatct gtatgattct atggagctat tttaaaccaa tgcaggtctt aga MKGNSTLATP SKNITSLHF GLVNISGNNE STLNCQKPS DKHLDAIPIL YYIIFVIGFL P VNIVVTLFC CQKPKKVS IYIFNLAVD LLLATLPLW ATYYSRYDW LFGPVMCKVF GSFLTLMFA SIFFITCMV DRYQSVIYPF LSQRNPWQA SYIVPLVWCM ACLSSLPTFY FRDVRTIEYL GVNACINAF PEKYAOWSAG IALMKNILGF IIFLFIATC YFGIRKHLK TNSYGNRIT RDQVLKMAA VLAFIIVCL PFHVLTFDA LAWMGVNSC EVIAVIDLAL PFAILLGFTN SCVNPFLYCF VGNRFQOKLR SVFRVPITWL QGKRESMSCR KSSSLREMET FVS </p>	Homo sapiens
331	5072	Pyrimidinerg ic Receptor P2Y4	NM_002565	<p> atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tccctggcagc A agtgaagtggtg agctggactg ttggtttgat gaggatttca agttcactct gctgcctgtg agctatgcag ttgtctttgt gctgggcttg ggccttaacg ccccaacct atggctcttc atcttccgcc tccgaccctg ggatgcaacg gccactaca tgttccacct ggcattgtca </p>	Homo sapiens

332	5072	Pyrimidinerg NP_002556.1 ic Receptor P2Y4	gacacctgtg atgtgtgtgc gctgcccacc ctcatctact attatgcagc ccacaaccac tggccctttg gcaatgagat ctgcaagttc gtccgctttc ttttctiattg gaacctctac tgcaagtgtc ttttctctac ctgcatcagc gtgcaccgtc acctgggcat ctgccaccca cttcggggcac tacgctgggg cgcgcctcgc ctgcagggcc ttctctgctt ggcagtttgg ttggtcgtag cgggctgctt cgtgcccacc ctgttctttg tcacaaccag caacaaggg accaccgtcc tbtgccatga caccactcgg ctggaagagt ttgaccacta tbtgcacttc agctcggcgg tcatgggggt gctctttggc gtgcctgccc tggtcactct tgtttgctat ggactcatgg ctgctgctct gtatcagccc ttgccaggct ctgcacagtc gtcttctcgc ctccgctctc tccgacccat agctgtgtgt ctgactgtct ttgctgtctg cttegtgctt ttccacatca cccgacccat ttactacctg gccaggctgt tggaaagtga ctgcgagta ctgaacattg tcaacgttgt ctataaagt actcggcccc tggccagtcg caacagctgc ctggatcctg tgcctactt gctcactggg gacaaatc gacgtcagct ccgtcagctc tgtgtgtgtg gcaagcccca gccccgcag gctgcctctt cctggcact agtgtccctg cctgaggata gcagctgcag gtggcgggcc acccccagg acagtagctg ctctactcct aggcgagata gattgtaa MASTESSLLR SLGLSPGPGS SEVELDCWFD EDFKFIILLPV SYAVVFLVL GLNAPTILWLF P IFRLRPWDAT ATYMFHIALS DTLYVLSLPT LIYYAAAHNH WPFTEICKF VRFLFYWNLY CSVLFLTCIS VHYLGICHP LRALRWGRPR LAGLLCLAVW LVVAGCLVFN LFFVTTSNKG TTVLCHDTRR PEEFDHYVHF SSVMGLLEG VPCLVTLVY GLMARLYQP LPGSAQSSSR LRLSLTIAV LTVEAVCFVP FHITRTIYVL ARLLEADCRV LNIWVVKV TRPLASANSC LDPVLYLLTG DKYRRLRLQL CGGKPKPRT ASSLALVSL PEDSSCRWAA TPQDSSCSTP RADRL	Homo sapiens
333	5117	Vasopressin NM_000706 V1A Receptor	taattgcttg aagattttt tccagacagg tggctctggaa accttttacc tattacctc A catccctgaa ccatttcaat ctctgcctc ctggatatct tggagaaaaat gaaccaaac aacacagctt tcagttttta gagcatttcc cccatacaga acattgtctt acttgatctt cccgatgacc tcaacaacag gaaaggcagg tcttttcat tccatttata agacgcacag accagagatt atctagccac aggaagcagg actccagatt tcaagtccag catctcaacg tgacaacctt ggtaaactctg catgaacgga ctggatagta aagtggaaatt attactgaga actgcaatga ataaaactt ttgcattttt tgcctacgtt tcacagaggg tgatatattt ctgagggcaat taaatttata ccacggccac aataactgaa cgttctgacc acaaaagtca tgctcttgca tctacacagc agataactgc agaaacggct tctttcttctt ctgtaaaaat tgcttgaaaa cagctcccc ttgctgtccg tcgaggcata tcttccaaa cgttaaaaa gagctgagg agatcgcatt tctgcctccc tcccgcctg cagaggggct ccagctgttc agagtaacgg attactaggt aggtggtgt ttcccctct tcccaggcc tcttctctt ctttgagatt gcctctttct tactcctgag cacagagacc gggcgggttt tctgtccctt gccttgga caactgcctg gatggccgct gtccggcagc tgctctttgt ccacccaaaa agatgtcccc acgactcagt agtaaccaga cgggtccccc ggaccactgc ggccaaattt ccgccatccc cgctgtggga atcaggcttt tcccgcagaa aaccacgga atctagagaa aactccttaa gtccctagtc tccatagaga aaacacggag acactcccc caaacccgc tgtgaataca ggcacacag ccaactgggg ctgaagtgta tgagtgcgtt ctccccgtc caaacatagg gtaataaata ccatgcatca aagacgttac taggaagaga tagctcttta	Homo sapiens

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gtttctagt gcatcttcat attgtacca aaactagac attatttgt atggaatatt
aatggaaaaa tctgttacta aaatagcag gctgtattcc cagaaataca acagaagta
tatttttaa ggaataatca taaccacct agctttatat tttgttgtta gttctttta
ttttcatttc taacataagt aagacttgat tgggttaaaa gtcacataaa atgcggcact

Accession	Gene	Protein	Species	Sequence
334	Vasopressin V1A Receptor	NP_000697.1	Homo sapiens	<p>atctctgaac aaagagagct catcatcagct cttaatatct agagaaaaact tcagagaaaat</p> <p>tatgtttttca tccattaaaaa ttaatttgtg catcagaaaaa tgcagcctta aacagtgtcc</p> <p>aggagatggg atggtacctc ctaggagtac aagtgcctgg ggtgtaataga gctcctgctc</p> <p>attgtggcca gtttagagtt ctattagaag ctatcaatca ccttgcatct caaatggta</p> <p>actttacaac tggcagtggc ctctctttgg tctctcacat attattggtc aagaaaagca</p> <p>tgaaaactga gatgtgaag gtgagaggaa atgttgactg gccaaaaata tcttttttcc</p> <p>ccactgcaa ggttgtttta aagtcagatt tgtataagga aagccaaaatt ttattaaaaa</p> <p>agtagaaaaa gattgcttaa ggtactctgg actttctctt ggacattgta aacgtatttt</p> <p>gatcagtatt acaagggtat cctgtgctat gctggacatt acaagatca ttatcttcat</p> <p>gtttggggaa ttc</p>
335	Vasopressin V1B Receptor	NM_000707	Homo sapiens	<p>TEFAVALGNS SVLLALHRTF RKTRSMHLFI RHLSLADLAV AFFQVLPMQMC WDITYRFRGP</p> <p>DWLGRVVKHL QVFGMEFASAY MLVVMTRADRY IAVCHPLKTL QQPARRSRRLM IAAAWVLSFV</p> <p>LSTPQYFVFS MIEVNNVTKA RDCWATFIQF WGSRAYVTVW TGGIFVAPVV ILGTCTYCFIC</p> <p>YNIWCNVRGK TASRQSKGAE QAGVAFQKGF LLAPCVSSVK SISPAKIRTV KMTFVITVAY</p> <p>IVCWAPFFII QMWSVWDPMs VMTESENPTI TITALLGSLN SCNPWIYMF FSHLLQDCV</p> <p>QSFPCQNMMK EKFNKEDTDS MSRRQTFSYN NRSPTNSTGM WKDSPKSSKS IKFIPVST</p> <p>ctccagccgc tgctcaccag gcagagcagc cgggcttggc tgggcttccc tgccctgagc A</p> <p>gcgacaccca ctgctccgga ccgcgcctcc aagcaggctg aaggcctccc gctcttggct</p> <p>tcagaaaaag ttgtggagaaa gagaatttga ggcggattgg aggggtgtag cccctcccca</p> <p>gcttcttctc tctccagaaa gctcactctt gcacagcgtc ccccatctct cccgtcttga</p> <p>ttcccatctt tctgacccc tcttctctcc tctcttgggt ccatcccatg cacatttctt</p> <p>ctttccgaat ctatcctccc ctctcctctt ctatcccatg cctctgaacg atttccgctt</p> <p>atttggaaag ctctcctctg tcatctctca cgcttctctt ttctctccac ctccccctgc</p> <p>actccatttt atccatcaaa cctctccact tggatccaca cctcccttcc atcttctct</p> <p>ccagcaaac ctgtctcatg gattctgggc ctctgtggga tgccaaacccc accctctggg</p> <p>gcacctctc tgcccccaat gccacaacac cctggctggg ccgggatgag gagctggcca</p> <p>aggtggagat cggagtctctg gccactgtcc tgggtgctgg gaccgggggc aacctggctg</p> <p>tgctgtgtac cctgggcccag ctgggcccga agcctctccc catgacctg tctgtgtgc</p> <p>acttagccct gacagacctg gccgtggcgc tcttccaggt gctgccacag ctgctgtggg</p> <p>acatcaccta ccgcttccag ggccccgacc tctgtgtag ggccgtcaag tacctgcagg</p> <p>tgctcagcat gtttgcctcc acctacatgc tgctggccat gacgtggac cgctacctgg</p> <p>ctgtctgtca cccccgcgc agcctccagc agccaggcca gtccactac ctgctcatcg</p> <p>ctgctccctg gctgctggcc gccatcttca gctccctca agtctctatt ttttccctgc</p> <p>gggaggtgat ccagggtctca ggggtgctgg actgctgggc agactctggc ttcccttggg</p> <p>ggccacgggc ctacctacc tggaccacc tggctatctt cgttctgccc gtgacctgc</p> <p>tcacggcctg ctacagcctc atctgccatg agacttgtta aaacctaaaa gtcaagacac</p> <p>agggctggcg ggtgggagga gggggctgga ggacttggga caggccctca ccttccacct</p> <p>tagctgccac cactcggggg ctgccatctc ggggtcagcag catcaacac attctacggg</p> <p>ccaagatccg aacagtgaag atgacctttg tcatctgtgt ggcctacatc gcttctggg</p> <p>ctccctctt cagtgtccag atgtggtccg tbtgggacaa gaatgccctt gatgaagatt</p>

336	5118	Vasopressin V1B Receptor	NP_000698.1	<p>ccaccaatgt ggctttcacc atctctatgc ttttgggcaa cctcaacagc tgctgcaacc cctggatcta catgggcttc aacagccacc tgttaccgag gccctgcgt cacttgccct gtgtgtgggg tccccagccc aggatgcgc gccggtctc cgacggcagc ctctcgagcc gccacaccac gctgctgacc cgtctccagc gcccgccac cctcagcctc agcctcagcc taaccctcag tgggagggcc aggcctgaag agtcaccaag ggacttggag ctggcagatg gggaaggcac cgtgagacc atcatctttt agaaagact cgtgggggtc tggctatgctc ccaggacta gtgagggttc tctgcccacc ttaggacctg gaaatgagag ctgggagggc aagggttga gttagaggag gccctgtctg aagcagagcc aaagggccag aatgggtccc ctaccctggt gtcacagctg cccctagtgt gagggctgcc tcataagctc ccaatctcag acactggcag tcaggagagaa tcaaaactgcc tgtctccctg gtcctgccat attcataggg tgtccatgca cacatgtgtt cccagatcta ggcaggccta gcatgggtgt gctaggggt ccacgggtgg caggaattca gaggtggcc ttgtgcccgt gctacctgtc tccattctaa cctgactggc acatctcagc ctaaccagga gagggagaa gtgaaaaaac gtgaggagga ctctatttgg atcctggatt tgttgtgtt gttgtgtgt ttgttagaga gaa</p> <p>MDSGPLWDAN PTPRGTLSAP NATTPWLGRD EELAKVEIGV LATVIVLATG GNLAVALTLG P QLGRKRSRMH LEVLHLALTD LAVALFQVLP QLLWDITYRF QGPDLLCRV KYLQVLSMFA STYMLLAMTL DRYLAVCHPL RSLQQPGQST YLLIAAPWLL AAIFSLPQVF IFSLREVIQG SGVLDCAWDF GFPWGPRAYL TWTTLAIFVL PVTMLTACYS LICHEICKNL KVKTQAWRVG GGGWRTWDRP SPSTLAATTR GLPSRVSSIN TISRAKIRTV KMTFVIVLAY IACWAPFFSV QMSVWDKNA PDEDSNVAF TISMLLGNLN SCCNPWIYMG FNSHLLPRPL RHLACCGGPQ PMRRRLSDG SLSSRHHTLL TRSSCPATLS LSLSLTSLGR PRPEESPRDL ELADGEGTAE TIIF</p>	Homo sapiens
337	5119	Vasopressin V2 Receptor	NM_000054	<p>agaagatcct gggttctgtg catccgtctg tctgaccatc cctctcaatc ttccctgccc A aggactggcc atactgccac cgcacacgtg cacacacgcc aacaggcatc tgccatgctg gcatctctat aagggtctca gtccagagac cctgggccat tgaacttgct cctcaggcag aggctgagtc cgcacatcac ctccaggccc tcagaacacc tgcctcagcc ccaccatgct catggcgtcc accacttccg ctgtgcctgg gcatccctct ctgccagccc tgcccagcaa cagcagccag gagaggccac tggacacccg ggaccgctg ctagcccggt cggagctggc gctgctctcc atagtctttg tggctgtggc cctgagcaat ggccctgggtc tggcggccct agctcggcgg gcccgggcgg gccactggg cctctgtcca agctatcac gctctcattg gccactgtg cctggccgac ctggcgtgtg ctctgttcca tctgtgccc cagctggcct ggaaggccac cgaccgcttc cgtgggccag atgcccctgt tggggccgtg aagtatctgc agatgggtggg catgtatgcc tcctctcaca tgatcctggc catgacgtg gaccgccacc gtgccatctg cgttcccatg ctggcgctacc gccatggaag tggggctcac tggaaacggc cgtgtgtagt ggcttgggcc ttctcgtccc ttctcagcct gccccagctc ttcatctctg cccagcgcaa cgttgaagggt ggcagcgggg tcaactgact ctgggcccgtc tttgcggagc cctggggccc tcgcacctat gtcacctgga ttgccctgat ggtgtctgtg gcacctacc tgggtatcgc cgctgccag gtgctcatct tccgggagat tcatgccagt ctggtgccag ggccatcaga gagggcctgg gggcgccgca ggggacgag gacagcagc cccggtgagg gagccacgt gtcagcagct gtggccaaga ctgtgaggat gacgttagt attgtgtctg tctatgtgt gtgctgggca ccttctctcc tgggtgcagt gtgggcccgtg tgggacccgg aggcacctc</p>	Homo sapiens

338	5119	Vasopressin V2 Receptor	NP_000045.1	MLMASTTSV ALARRGRRGH VGMVASSYMI RNVEGSGVT SERPGRRRG PLEGAPFVLL ASSSLAKDTS	PGHPSLPSLP WAPIHVEIGH LWMTLDHRHA DCWACFAEPW RRTGSPGEGA MLLASLNSCT S	SNSSQERPLD LCLADLVAL ICRPMLAYRH GRRTYVTWIA HVSAAVAKTV NPWIYASFSS SVSSELSRL	TRDPLLARAE FQVLPQLAWK GSGAHWNRPV LMVFVAPTGL RMTLVIVAVY VLCWAPFFLV CCARGTRPPS	LALISIVEVA ATDRFRGPD LVAWAFSLLL IAACQVLIIFR EIHASLVPGP QLWAAWDPEA LGPQDESCCT	Homo sapiens
339	5133	Peropsin	NM_006583	gaataagcct ataaatttagg aacacaatat taatagttct ttattaacct cctcagatct tgaatatatt acctgacct tgattctggg ctagttatgc gatcttttgt tgatgtttta gcaatgagtc tcagtatctg cttttgtgta aatcttctac caatgcttgc ccatggatgt acgctatcaa gatcaagtgc tgcttcggtt acttattgct	tcgataatta caacagttca tggtgcaact gggcatcttc ggctgttact gtatggaagt ttttggaatg ctgcttctct agcctggatc ccagatcct gtcttacacc ctgctattac cctcaacaga catgtttctg cccaagaag attctataac catgttcaaa atctcaaaac aacactttag agacatggat tgtgcactct catctccttt	tgaaggggtg gactctaaa tacttgatta attaagtaca gatataaggg tggaatttg gcaagcattg gacgtaggga aatggcctgt actggtgcta atgacagtta catgtcacgc gactggtcag gtggcatggg atctctccc ccctgcattt tgtcagactc ccattggctt tttttgaca tgtcttctga tgatgtccta ggctgtgta gatgaattag	ttcgggtatct atgaagatgg tgggcaggtat aggaacttcg tcagtagcat gatacgcagg gattactcac gaagaatgac tttgggcttt cgtgtaccat tttctgataa tatccattaa atcagataga ccccattatc catcgatggg ccatggccat atgtggttgc taataaaaag gacctgtgac ctggaagaat ctgaaataag tttaaatatg agctcctcaa agctcctcaa tgagagtgtg ctctgtgctt tgatgtgctt ttaaagggtc	atgctaagaa tcacagactg atcagcaaca aatgcaatta atgtctgctg tggtatccc tatgtcggat gtggaccgat tacatcggct atagggtggg aaaatgata cccttgacag accagtgaat atgtctgtga ttatgggctt ctgtgtgc ctgtttgcaa tttcggaggg agtaattttac agaaaaggac agccatttta gcacagctcg tgatatatca ctttctttct	Homo sapiens

340	5133	Peropsin	NP_006574.1	ccctattatg gcatgcatta cactgtactg atgacacctta acttgccctg ctcc	Homo sapiens
341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	MLRNNLGNSS DSKNEDGSVF SQTEHNIVAT YLIMAGMISI ISNIIVLGIF IKYKELRTPPT P NAILIINLAVT DIGVSSIGYP MSAASDLYGS WKFGYAGCQV YAGLNIFFGM ASIGLLTVA VDRYLITICLP DVGRMTTNT YIGLILGAWI NGLFWALMPI IGWASYAPDP TGATCTINWR KNDRSEFSYT MTVIAINFIV PLTVMEFYCY HVTLSIKHHT TSDCTESLNR DWSDDQIDVTK MSVIMICMFL VAWSPYSIVC LWASFGDPKK IPPPMALIAF LFAKSSTFYN PCIYVVVANKK FRAMLAMEFK CQTHQTMPVT SILPMDVSQN PLASGRI ggactttaga agccgttgct gcccctctctg tcacctgaag cggggccctc tcccatccca A cccttgccc gccctccctgc ccccaaccgg cggccctgc cggccgccc accctggcat gtcaagacct ggctgcgccc tgccctgccca cccctctgga cccctgccc gctgctactg agatgaggg gccagggccc cggcccgccc cggcccgccc gggcccgccc gggcccgccc ctgctgctgc tctgaggacg cggcccgccc gggcccgccc gggcccgccc gggcccgccc cccagacct gggccacct ggtgcaggga agttctctg gctacttctc cggcccgccc gtgttcccc ccaacgccc gcgctgctcc tggacgctac gcaacccgga cccgcccgc tacactctct acatgaagggt ggccaaaggc cccgtgccc gaggccgccc cggccgccc cgacactacc agttcgactc ctctctcgag tccacgcga ctacactggg cgtggagagc ttcgacgagg tctgcccgt ctgcgacccc tccgacccc tggccctctc gcaggcccagc aagcagttcc tgcagatgcg gcgcccagc cggcccccag acgacgggct cggcccccgc gcccggccc cggcccacc cgacgacttc tccgtggagt accctgggtt ggggaacgc aaccccagc gtgcgcccgt ccagatgctg tgcgctggc tggacgctg tctggccggt agtcgagct cgcacccctg cgggacatc cagacccct ggcctgccc gggccgccc gcccggccc ctgcgcccgt accctggcc ccccgggg atgtctgctt gagagatgcg gtggctgggt gccctgaata gtggtccctg agcctgacc agaacccggg cggccacggc gccacaggc gctggaagct gtggtccctg tggggcggaat gcacgcccga ctgcccggg ggcctccaga cgcggacgcg cactgcccgt ccccgcccgt cggccgccc cggccgccc gagggggtg tggaggaggg tgcgacatgc aaccgagag cctgcccgc cgtgggccc accagctccc ggagccagtc cctgcggtcc acagatgccc gggccgccc gagctgggg gacgagctgc agcagtttgg gtcccagcc cccagaccc gtgacccagc agccgagag tggccccct ggagcgtgtg ctccagcacc tgcggcgagg gctggcagac ccgacgccc ttctgctgt cctcctccta cagcagcag cctgcgccc cctgcccgc gcagcggctg tgcaacaact ctgcccgtgt cccagtgcat cctgcggtcc acagatgccc gggccgccc gagctgggg ctctgctcca gccctgtgtg cctggtgttt cgggacccga cggccaccc caggccccc cagtttggg gcaacccctg tgaggcccct gagaagcaaa ccaagttctg caacattgccc ctgtgcccct gccgggcagt ggatggaac tggatgagt ggtcagctg gaggccctg tccgcccagt gctcccagg cgcacagcag cgcacgctg aatgcaacgg gcttccctac gggggtgccc agtgcagggg ccaactgggt gagacccgag actgcttctc gcagcagtc ccagtgatg gcaagtggca ggcctgggca tcatgggga gttcagcgt cagtggtggg gctggcagc agcagcggga gcgtgtctg tctggcccct tctgggggg agcagcctg cagggcccc aggatgagta cggcagatgc ggcacccagc ggtgtcccga gcccctgag atctgtgatg aggaacaact tgggtgctgt atctggaagc agacccagc gggagagggtg	Homo sapiens

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343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	<p>GDGDIFFKKLD SELSRAQEKA LDTSYVILPT ATATLRPKPK EEPKYSIHID QMPQRLIHL STAPEASLPA RSPPSRQPPS GGPPEAPPAQ PPPPPPPPPP PPQPLPPPP NLEPAPPSLG DPGEPAHPG PSTGPSTKNE NVATLSVSSL ERRKSRYAEL DFEKIMHTRK RHQDMFQDLN RKLQHAAEKD KEVLGPDSPK EKQQTPNKRP WESLRKAHGT PTWVKKELEP LQPSPLELRS VEWERSGATI PLVGQDIIDL QTEV</p> <p>gcgcgcggg agagcgggag cctcgggcct ccgcggggt gcagctacct accctgcgc A cggccagggt ccgacttag ggatggcaaa ctgcgcccc gtggcgccc cgccagcgc cgccccccgc tctgtgtgt gacggcgccc aggaatacca gcagagtgt acatgtgacg tccacactga cagtgccttc ctgtgggcat gtgcaggtt gtgcgagtt cctggcacac tggtgtaac tccgccccct tctctccctc tcagtaaac agattacgc ggtgacatgc ctcacagctg atcacgacac acggggatgg agagcaagag ttatggagaa tacagggtgg atgggcaagg gacataggat gacccagcc tgtccccct tactgtctgt gattctgtcc ctgcgcctgg ccaccgcctt cgaccccgcc ccagtgccct gctctgccct ggccctgggt gtgctctacg gggccttctc gctgcaggac ctcttctcta ccctgcctc gggctgctcc tggaccctgg agaaccttga cccacccaag tactccctct acctgcctt caaccgcca gagcaggtgt gcgacactt tgcctccgc ctgctgccc tggaccacta cctggtcaac ttacactgcc tgcggcctag ccccgaggag cggtggccc agcgagatc agaggtgggg cgccagaag aggagggagc agaggcgga cggggttg agctgtgcag cggtcagc ccctttacct tctgtacct cgacaagac ttcgtgcagc tgtgctgtc ggtgagccc tccgaggccc cgccctgtct ggcccgctt gcctagcct tccgcttctg cgaggtctg ctcatcaaca acaacaactc tagccaattc acctgtgtg tgcctgccc ctggagtgg gagtgtggcc gcgctgccc gaggcgctgc caggcgctgc acctgtgtc agctgccc ggagaggcgg ggccggctc caccaccac acatctccag gccctctctc tgcacacc ctgtccaatg cctggtgtcc cgggggccc gccacactg ctgaggccga ttgcactcg gggagcagca atgactgtt cacaaccgag atgagatatg gtgaggagc ggaagaggaa ccgaaagtga aaaccagtg gccgaggtct gcagatgagc ctgggctata catggcgag acaggcgacc cggcggtga ggaagtgtcc ccgtgagcg tgtgttccct gacgtgtggg cagggtctgc agtgtcgga cgcctcctgt gtgtcctcc cctatgggac cctgtgcagc ggcccccctgc gggagaccag gccctgcaac aattcagcca cctgcccagt gcacggcgtg tgggaggagt ggggttctg gagcctgtgc tcccgcagt gggggcgggg gtcccggagc cggatgcga cctgctgtcc ccccgagcag ggcggcaagg cctgagagg tcctgagctg cagactaagc tctgagtat ggtgctgtc cgggtggaag gccagtgggtt agaatgggtt ccctggggcc catgtccac gtctgtgc aatgggacc aacagcgca cgggaagtgc agcgtggcgg gccagcctg gccacatgc acgggtgcc tcactgacac ccgggagtgc agcaacctcg agtgcctgc cactgatgc aagtggggc catgaaatgc gtggagcctg tgctctaaag cgtgtgacac aggttggaag ggcgcttcc gcatgtgcca ggcacgggc acgcagggtt accctgcga gggcaccgga gaggaggtga agccttgtag tgagaagagg tgtccagcct tccatgagat gtgcaggat gactacgtga tgcctgatgc gtggaagaa gcagctgtcg gcgagatcat ctacaacag tgcctccga atgcctcagg gtctgccagc cgccgtgtc tctcagtc ccaaggcgtg cgtactggg ggtgcccag cttgtctcgc tgcatctccc atgagtaccg ctacctgtat ctgtcactta gggagcacct ggccaaagg</p>	Homo sapiens
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344	5520	Brain- Specific Angiogenesis Inhibitor 2	NP_001694.1	<p>ccgcccagac ccagcgcccg ccaagtgtccc gagcagggg agcgagccg gaccatgcct</p> <p>cgcaccgtgc cggctctac catgaagatg ggctccctgg agcgaagaa attacggtat</p> <p>tcagacctgg actttgaggt gatgcacacc cggaaacggc attcagaact ctaccacgag</p> <p>ctcaaccaga agttccacac ttctgacccg tacgcagcc agtccacggc caagagggag</p> <p>aagcgggtga gtgtgtctc gggtggggcg gccagcgga gcgtgtgcac cgataagccc</p> <p>agcctggggg agcgcctcag ctgtgtccaa catcgcgcc atcagagctg gacaccttc</p> <p>aaatctatga cactgggtc gctgcccc cagccccag aacggctgac tctgacccg</p> <p>gcagcagcct gggagccac agaaccacg gatggtgac tccagacaga ggtgtgagt</p> <p>ccagctgga ctgcccactg catataata tatatatct tctatttca cactccact</p> <p>tggaactacc caggagccag cgcctctcc cctctccga gggtgggca gggagggcc</p> <p>gtggactcag ccaggtggg gagccggac atggcttggc ctgggtccc agggccctc</p> <p>ctgtttctc agagggccct cagccactg aacccatct tcagccacg ctgtccgtcc</p> <p>ctgtcccggt ctggggagg gggagggaa cttgttggg aataacttc actctgtg</p> <p>MTFACPLLLS VILSLRLATA FDPAPSA SACS LASGVLYGAF SLQDLFTTIA SGCSWTLENP P</p> <p>DPTKYSLYLR FNRQEQVCAH FAPRLPLDH YLVNFTCLRP SPEEVAQAE SEVGRPEEEE</p> <p>AEAAGLELC SGSGFTFLH FDKNFVQLCL SAPSEAPRL LAPAALAFRF VEVLINNN</p> <p>SSQFTCGVLC RWSEECGAA GRACGFAQPG CSCGGEAGAG STTTSPGPP AAHTLSNALV</p> <p>PGGPAPPAEA DLHSGSSNDL FTTEMRYGEE PEEPKVKQT WPSADEPGL YMAQTGDPA</p> <p>EEWSPWVCS LTCGGLQVR TRSCVSSPYG TLCSGPLRET RPNNSATCP VHGWEEWGS</p> <p>WSLCSRSCGR GSRSMRTCV PQHGGKACE GPELQTKCS MAACPVEGOW LEWGPWGPCS</p> <p>TSCANGTQQR SRKCSVAGPA WATCTGALTD TRCSNLECP ATDSKWGPWN AWSLCSKTC</p> <p>TGWQRFRMC QATGTQYPC EGTGEVKPC SEKRCISHEY RYLYLSLREH LAKQORMLAG</p> <p>IYNKCPPNAS GSASRRCLLS AQGVAYWGLP SFARCSISHEY RYLYLSLREH LAKQORMLAG</p> <p>EGMSQVVRSL QELLARTYY SGLLFSVDI LRNVDTFKR ATYVPSADDV QRFQVVSFM</p> <p>VDAENKEKWD DAQVSPGSV HLLRVDEFI HLVDGALKAF QSSLIVTDNL VISIQREPVS</p> <p>AVSSDITFPM RRRGMKDWV RHSEDRLEFP KEVLSLSSPG KPATSGAAGS PGRGRPGTV</p> <p>PPGPGHSHQR LLPADPDESS YFVIGAVLYR TLGLILPPR PLLAVTSRVM TVTVRPPTQP</p> <p>PAEPLITVEL SYIINGTTDP HCASWDYSRA DASSGDMTE NCQTLETQAA HTRCQCQHL</p> <p>TFAVLAQPPK DLTLELAGSP SVPLVIGCAV SCWALLTLA IYAAFWRFIK SERSIILLNF</p> <p>CLSILASNIL ILVQSRVLS KGVCTMTAAF LHFFLSLSSFC WVLTEAWQSY LAVIGRMTR</p> <p>LVRKRFLCLG WGLPALVAV SVGFTRTKGY GTSSYCWLSL EGGLEYAFVG PAAVIVLVNM</p> <p>LIGIIVFNKL MARDGISDKS KKQRAGSERC PWASILLPCS ACGAVPSPLL SSASARNAMA</p> <p>SLWSSCWVLP LLALTWMSAV LAMTDRRSVL FQALFAVENS AQGFVITAVH CFLRREVQDV</p> <p>VKQMGVCRA DESESDPSC KNGQLQILSD FEKDVLDLACQ TVLFKEVNTC NPSTITGTL</p> <p>RLSIDEDEEP KSLVGPES LSFSPLPGNI LVMAASPLG GEPPPQPEAN PVMCGEGGL</p> <p>RQLDLTWLRP TEPGSEGDY VLPRTLSLQ PGSGGGGGED APRARPEGP RRAKTVAHT</p> <p>EGYPSFLSVD HSLGLGPAY GSLQNPYGMT FQPPPTPSA RQVPEPERS RTMPRTVPGS</p> <p>TMKMSLERK KLYSDLDFE VMHTRKRHSE LYHELNQKFH TFDYRSQST AKREKRSVS</p> <p>SGGAERSVC TDKPSPGERP SLQHRRHQS WSTFKSMTLG SLPPKPRERL TLHRAAWEP</p> <p>TEPPDGFQT EV</p>	Homo sapiens
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345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	<p> ggataacaac ttacagagggc caaatgacat aggatgaagg ctgttcgtaa cctgctgatt A tatatatattt ccacctaattt cctgggttatg ttgtgattta atgctgcccc agactttctgg tggtcaactt tgggaagggt agtcatttat ggatcgtatt ctgtaagtga aatgtttcct aaaaacttta caaactgcac ttggacgctg gaaaatccag atccaaccaa atatagcatt taactgaaat ttcccaaaa ggaccttagc tgcttaact ttactcctt ggttatacag tttgatcatt ttcccatga aaaaataaag gatcttttaa gaaagaatca ttctataatg caactctgca attccaagaa tgctttcgtt ttctacagt atgataaaa ttttattcaa atacgtcag tatttccaac taatttccca ggattacaga aaaaagggga agaagatcag aaatcttttt ttgagttttt ggtattgaac aaggtcagcc caagccagtt tggttgccat gtattatgta ctggttttga gagctgctta aaatcagaaa atgggagaa agaatcatgt gggatcatgt atacaaaatg cacctgacct cagcatttgg gagagtgggt gacgacgac cagtcgctga ttttgttaaa taacgtggtg ttacctctga atgagcagac agagggtgc ctgacccagg agctgcaaac caccgaagtc tgcaatctta ccaggggaggc caagcgacca cccaagaag aatttggat gatgggagat cataaatta aagtcagcg acctcgatct gttcataaaa aaagggtccc tcaggaaaca gctgatgctt cttaatttat ggcacaaaact ggtgaatctg gtgtggaaga gtgtcccaag tggagcacat gttcggttac ttgtggtcaa gggtcgcagg tgcgaaccag aacttgtga tcaacttacg ggacacactg cagcggccca ttaagagaat caagggtttg caataacact gccctctgtc cagtacacgg agtatgggag gaatggtcac catggagttt atgttcattt acatgtgttc gaggccaaa acaagaaca aggtcatgca cacctcctca gtatggagga agccgtgtg aaggacctga aacacatcat aagccttgta atattgctct ttgccagtt ttggacagt ggaagagtg gagtctgtg agccagtgt cagtaactg ctgaaatgg actcagcaga gaagccgga gtgactgca gctgcccag gaggtccga atgcagaggg ccatgggag aagcagaga gtgctataac cctgaatgta gagccaatgg tcaatggaat cagtgggttc attggagtgg ttgttccaa tcctgtgat gcggtggga aaggcgaata aggacctgtc aggtgcaat gataacaggg cagcaatgt aggaacggg cgaagaagt agaatgca gtgagcagcg atgcccgtga ccttatgaa tatgcctga ggttatctg ggttatctg atgtcgatgg tgtgaaaaag aactccagca ggcgacttgg cattcaatca atgtccctg aatgccacag gcaccactag cagacgctgc tctctcagtc ttcattggagt ggccttctg gaacagcga gctttgcaag atgcatatca aatgagtaca gacacttga cacttcaat aagagcacc ttgctaagg gcagcgaatg ctggcagggt atggaatgt ccaggtgacc aagacactgt tggatttaac tcagagaaaa aatctctatg caggcagatc tctgatgtct ttgagatcc tgagaaatgt gacagacaca tttaaaagg caagttacat cctgcatct gatgtgtcc agaacttct tcaaatagtt agcaaccttc tagatgaaga aaacaaggaa aatgggaa atgcacaaca gatttatcca gggtcaatag agttaatgca ggtgattgaa gatttatca acattgttg aatggggtg atggaacttc agaattcata cttaatgact ggaatgtag tggctagat tcagaagctt cctgcagcct ctgttctaac agacatcaac ttccaatga aaggacgga ggaatggtt gactgggcaa gaaactcaga agatagggtg taattccaa aagcatttt cactccgtg tcataaaaag aattagatga atcatctga ttgttcttg gcgcagtcct atacaaaaac ttagatctaa ttttgcccac tttagaaaat tatactgtca ttaattccaa aatcatcgtg gtcacataaa ggcctgaacc caaaacaacc gattcgtttc ttgagataga actagctcat </p>	Homo sapiens
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346	5521	Brain- Specific Angiogenesis Inhibitor 3	NP_001695.1	<p> aagcacaaatg tatatatatta tgcagttttt aaagtttata acagttctgtt tggccattac tacaacttttt actttataat ataaaagcaa agttttttgtc attaaatgaa tgtttgttga gctacattct tcattgcttt aaatgcaata aagtaataat ctcaatttta tatgaataat atatttcaca tctttattat tgcagttttc tctagaaagc tctgagaagc tttctctgct gcagctgtgt ataaaaatatt taaaattgtg tatggtgtgaa ataaactttt gttctacat mkavrnllly ifstyllvmf gfnaaqdfwc stlvkgviyg sysvsemfpp nftnctwtile p nfdptkysiy lkfskklslsc snfslalayqf dhfshekiid llrknhsimq lcnsknafve lqydknfiqi rrvfptnffg lqkgeedqk sffeeflvlnk vspqfgchv lctwlescll sengrtescg imytkctcpq hlgewgiddq slillnnvvl plneqteglc tqelottqvc nltreakrpp keefgmwdh tiksqrrsv hekrrvpqea daakfmaqtg esgveewsow stcsvtcgqg sqvrrtcvs pygthcsgpl resrvcnnta lcpvhgvwee wspwslcsft cgrgqrtrr sctppoyggr pcegpethhk pcnialcpvd gqwqewssws qcsvtcsngt qorsrqctaa ahggsccrgp waesrecynp ectangqwnq wghwsgcsks cdggwerrir tcogavitgq qcegtgeevr rcseqrccp yeicpedylm smwkrtpag dlafnqcpln atgtsrrcs lslhgvafwe qpsfarcisn eyrhlqhsik ehlakqrmil agdmsqvtk tllldltqrkn fyagdlmsv eilrntvdtf krasyipasd gvqnffoivs nlldeenkek wedaqqiypg sielmovied fihivgmgm dfonsylmtg nvvasiqklp aasvltidine pmkrkgmvd warnsedrv ipksiftvps skeldessvf vlgaulyknl dlilptlrny tvinskiiv tirpekttd sfleielahl angtlnpycv lwddsktnes lgtwstqgck tvltdashtk clcdrlstfa ilaqqpreii messgtpsvt livsgslscl alitlavvya alwryirser siilinefcls iissnililv gotqthnksi cttttafelh fflasfcvwl teawqymav tgkirtlrir krflclgwgl palvattskh ftrtkygtg hycwlslegg llyafvgpaa avlvnmvig ilvfnklvsr ragomsephs gtlkckakcg vvsttalsat tasanamaslw sscwvlpila ltwsavlam tdkrsilfqi lfavfdsllqg fvivmhcil rrevqdafrc rlrncodpin adsssfppng haqimtdfek dvdiacrsvl hkdigpcraa titgtlsris lnddeekgt npeglstl pgnviskvi qptglhmpm smnlsnpcl kkenrelrtr vylctddnrl gadmdivhpq ermmedyiv mprssvnnqp smkeskwni gmetlpherl lhykvnpefn mnpvmdqfn mnleqhlapq ehmqnlpfeep rtavknfmas elddnaglsr setgstisms slerrksrys dldefekvmht rkrhmelfqe lnqkfqtlr frdipntssm enpapknpw dtfknpsyep hyttinvltdt eakdalelrrp aewekclnlp ldvqegdfqt ev gcagaccttg cttcatgagc aagctcatct ctggaacaaa ctggcaagc atctctgctg a gtgttcata gaacagacac catggcagag catgattacc atgaagacta tgggttcagc agtttcaatg acagagacca ggaggagcat caagacttcc tgcagttcag caaggtcttt ctgacctgca tgtacctggt ggtgtttgtc tbtggtctg tggggaactc tctggtgctg gtcatatcca tcttctacca taagtgcag agcctgacgg atgtgttctt ggtgaacct ccccgtgctg acctggtgtt tgtctgcact ctgccccttct gggcctatgc aggcattcat gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcattctacac tattaacttc tacacgtcca tgcctcatcct cacctgcac actgtggatc gtttcatgt agtgggttaag gccaccaagg cctacaacca gcaagccaaag aggatgacct ggggcaaggt caccagcttg ctcatctggg tgatatccct gctggtttcc ttgccccaaa tttatctatgg caatgtcttt </p>	Homo sapiens
347	6031	SIV/HIV Receptor BON20	NM_006564	<p> aagcacaaatg tatatatatta tgcagttttt aaagtttata acagttctgtt tggccattac tacaacttttt actttataat ataaaagcaa agttttttgtc attaaatgaa tgtttgttga gctacattct tcattgcttt aaatgcaata aagtaataat ctcaatttta tatgaataat atatttcaca tctttattat tgcagttttc tctagaaagc tctgagaagc tttctctgct gcagctgtgt ataaaaatatt taaaattgtg tatggtgtgaa ataaactttt gttctacat mkavrnllly ifstyllvmf gfnaaqdfwc stlvkgviyg sysvsemfpp nftnctwtile p nfdptkysiy lkfskklslsc snfslalayqf dhfshekiid llrknhsimq lcnsknafve lqydknfiqi rrvfptnffg lqkgeedqk sffeeflvlnk vspqfgchv lctwlescll sengrtescg imytkctcpq hlgewgiddq slillnnvvl plneqteglc tqelottqvc nltreakrpp keefgmwdh tiksqrrsv hekrrvpqea daakfmaqtg esgveewsow stcsvtcgqg sqvrrtcvs pygthcsgpl resrvcnnta lcpvhgvwee wspwslcsft cgrgqrtrr sctppoyggr pcegpethhk pcnialcpvd gqwqewssws qcsvtcsngt qorsrqctaa ahggsccrgp waesrecynp ectangqwnq wghwsgcsks cdggwerrir tcogavitgq qcegtgeevr rcseqrccp yeicpedylm smwkrtpag dlafnqcpln atgtsrrcs lslhgvafwe qpsfarcisn eyrhlqhsik ehlakqrmil agdmsqvtk tllldltqrkn fyagdlmsv eilrntvdtf krasyipasd gvqnffoivs nlldeenkek wedaqqiypg sielmovied fihivgmgm dfonsylmtg nvvasiqklp aasvltidine pmkrkgmvd warnsedrv ipksiftvps skeldessvf vlgaulyknl dlilptlrny tvinskiiv tirpekttd sfleielahl angtlnpycv lwddsktnes lgtwstqgck tvltdashtk clcdrlstfa ilaqqpreii messgtpsvt livsgslscl alitlavvya alwryirser siilinefcls iissnililv gotqthnksi cttttafelh fflasfcvwl teawqymav tgkirtlrir krflclgwgl palvattskh ftrtkygtg hycwlslegg llyafvgpaa avlvnmvig ilvfnklvsr ragomsephs gtlkckakcg vvsttalsat tasanamaslw sscwvlpila ltwsavlam tdkrsilfqi lfavfdsllqg fvivmhcil rrevqdafrc rlrncodpin adsssfppng haqimtdfek dvdiacrsvl hkdigpcraa titgtlsris lnddeekgt npeglstl pgnviskvi qptglhmpm smnlsnpcl kkenrelrtr vylctddnrl gadmdivhpq ermmedyiv mprssvnnqp smkeskwni gmetlpherl lhykvnpefn mnpvmdqfn mnleqhlapq ehmqnlpfeep rtavknfmas elddnaglsr setgstisms slerrksrys dldefekvmht rkrhmelfqe lnqkfqtlr frdipntssm enpapknpw dtfknpsyep hyttinvltdt eakdalelrrp aewekclnlp ldvqegdfqt ev gcagaccttg cttcatgagc aagctcatct ctggaacaaa ctggcaagc atctctgctg a gtgttcata gaacagacac catggcagag catgattacc atgaagacta tgggttcagc agtttcaatg acagagacca ggaggagcat caagacttcc tgcagttcag caaggtcttt ctgacctgca tgtacctggt ggtgtttgtc tbtggtctg tggggaactc tctggtgctg gtcatatcca tcttctacca taagtgcag agcctgacgg atgtgttctt ggtgaacct ccccgtgctg acctggtgtt tgtctgcact ctgccccttct gggcctatgc aggcattcat gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcattctacac tattaacttc tacacgtcca tgcctcatcct cacctgcac actgtggatc gtttcatgt agtgggttaag gccaccaagg cctacaacca gcaagccaaag aggatgacct ggggcaaggt caccagcttg ctcatctggg tgatatccct gctggtttcc ttgccccaaa tttatctatgg caatgtcttt </p>	Homo sapiens

348	6031	SIV/HIV Receptor BONZO	NP_006555.1	MAEHYHEDY GFSSRNDSSQ EEHQDFLQFS KVFPLPCMYLV VFVCGLVGNS LVLVISIFYH P KLQSLTDVFL VNLPLADLVF VCTLFPWAYA GIHEWVFGQV MCKSLLGIIYT INFYTSMLIL TCITVDREIV VVKATKAYNQ QAKRMTWGVK FLPLLTMIVC YSVIIKTLH AGGFQKHRSI KIIFLVMVAF GYHDEAISTV VLATQMTLGF FLPLLTMIVC YAMTSFHYTI MVTEAIAYLR ACLNPVLYAF VSLKFRKRFW LITQMPFNLM KFIIRTHWEY SEDNSKTFS SHNVEATSMF QL KLVKDIGCLP YLGVS HQWKS	Homo sapiens
349	6204	Lysophosphatidic Acid Receptor Edg4	NM_004720	gccccatgg tlcatsatggg ccagtgctac tacaacaga ccactggctt cttctataac A aacagtggca aagagctcag ctccccatg gcggccaaag atgtggtcgt ggtggcactg gggctgaccg tcagctgctt ggtgctgctg accaatctgc tggatcatag agccatgccc tcaaacgcc gcttccacca gcccatctac tactgctgctg gcaatctggc cgcggctgac ctcttcgagg gctgggcta cctctctc atgttccaca ctgggtcccc cacagccga ctttcacttg agggctggtt cctgaggcag ggttgcctg acacaaacct cactgsgtcg gtggccacac tgctggccat cgccgtggag cggcacccga gtgtgatggc cgtgcagctg cacagccgcc tgcccogtgg cgcgtggtc atgtcattg tggcgctgtg ggtggctgccc ctgggcttgg gctgctgccc tgcccactc tggctatgc tctgtgacct ggaccgtgac tcacgcattg caccctgct cagccgctcc tatttggccg tctgggctct tgcagacctg cttgtcttc tgctcatggt ggctgtgtac acccgcat tcttctacgt gcggcgcca gtgcagcgca tggcagagca tgtcagctgc caccctcgct accgagagac cagctcagc	Homo sapiens

350	6204	Lysophosphat idic Acid Receptor Edg4	NP_004711.2	MVINGQCYNN RREHQPIYYL TLIAIAVERH MAPLLRSYL KTVVILGAF EMRRTFRLL cttcagatag ctgtgtagt taaaccttca actgtttctct aaagaaacag gccagaagag gattatcaag aaaatcaaat atctttgggt aagagcatga actgtccctt caactcttga ctgacaaatcg gtcacctttg ctcaggaatca gggtgtgtcc cttcggtgtc attgtttatt gaattctttg acagagactc gagaagtcca aaatgtctgt tccactgggg ccagtcagag ggagaggtct ttggcatctg	ETIGFFYNNS LGNLAADLF RSMVAQLHS AVWALSLLV VVCWTPGQW CCACLRQSTR gattatatctg ggatgagcag gaccagagat gattcttttc catttcttac ctgagacatc tgtcaagtcc tgaagcaaat ttgtggcaca ctgacatcta tctgggctca cagggtctta ataggtacct gggtgtgtgac tctttaccag gtcagtatca tgccgctgct gaaatgagaa ttctcttctg gactgaataa ttgggatgac gaaactacct ctattttcca agcagaatat tctgtgggc ggcttagttt gaagttactt attagatctt	GKELSSHWRP AGVAYLFMF RLPRGRVVM FLLMVAVYTR LLLDGLGCS ESVHTSSAQ gagtgaagga gagtaaaaaa ctattctcca gccttcaata ttttatactg cgttccctta aatctatgac cgacgccgc catgctggtc cctgctcaac ctatgctgcc ttttataggc ggctgtgtgc aagtgtgac atctcaaaaa attctggaag ttgtcatggtc gaagaggcac ggctccctac ttgacagtgc gactgctgc cttagtcttc gcaagaggct atctgtgggc ggcttagttt gaagttactt attagatctt	KDVVVVALGL HTGPTARLS IVGWVVAALG IFFYVRRRVQ CNVLAKEYF GGASTRIMLP tctgtccacc caaaataatc gcttatttta cacttaatga tctatatgat aatcaaatc atcaattatt ctcttgcttc atctctatcc ctggccatct gcccagtggg ttcttctctg catgctgtgt acttgggtgg gaaggtcttc attacacctg cattaaagat cggaatacct ggcttatctt ttctctgaa tgaaccaagc tcatacaggt atcaacccca ttccaaaaagc cccagcgag ttgtgacacg tcatacacag cctggcttgg tctatagagg ttaagcccat	LLVIAAIASN LDTSLTASVA CICALDRCSR RYRETTISLV NAAVYSCRDA ENGHPLMDST L	A	Homo sapiens
351	6213	C-C Chemokine Receptor 5	NM_000579	cttcagatag ctgtgtagt taaaccttca actgtttctct aaagaaacag gccagaagag gattatcaag aaaatcaaat atctttgggt aagagcatga actgtccctt caactcttga ctgacaaatcg gtcacctttg ctcaggaatca gggtgtgtcc cttcggtgtc attgtttatt gaattctttg acagagactc gagaagtcca aaatgtctgt tccactgggg ccagtcagag ggagaggtct ttggcatctg	ETIGFFYNNS LGNLAADLF RSMVAQLHS AVWALSLLV VVCWTPGQW CCACLRQSTR gattatatctg ggatgagcag gaccagagat gattcttttc catttcttac ctgagacatc tgtcaagtcc tgaagcaaat ttgtggcaca ctgacatcta tctgggctca cagggtctta ataggtacct gggtgtgtgac tctttaccag gtcagtatca tgccgctgct gaaatgagaa ttctcttctg gactgaataa ttgggatgac gaaactacct ctattttcca agcagaatat tctgtgggc ggcttagttt gaagttactt attagatctt	GKELSSHWRP AGVAYLFMF RLPRGRVVM FLLMVAVYTR LLLDGLGCS ESVHTSSAQ gagtgaagga gagtaaaaaa ctattctcca gccttcaata ttttatactg cgttccctta aatctatgac cgacgccgc catgctggtc cctgctcaac ctatgctgcc ttttataggc ggctgtgtgc aagtgtgac atctcaaaaa attctggaag ttgtcatggtc gaagaggcac ggctccctac ttgacagtgc gactgctgc cttagtcttc gcaagaggct atctgtgggc ggcttagttt gaagttactt attagatctt	KDVVVVALGL HTGPTARLS IVGWVVAALG IFFYVRRRVQ CNVLAKEYF GGASTRIMLP tctgtccacc caaaataatc gcttatttta cacttaatga tctatatgat aatcaaatc atcaattatt ctcttgcttc atctctatcc ctggccatct gcccagtggg ttcttctctg catgctgtgt acttgggtgg gaaggtcttc attacacctg cattaaagat cggaatacct ggcttatctt ttctctgaa tgaaccaagc tcatacaggt atcaacccca ttccaaaaagc cccagcgag ttgtgacacg tcatacacag cctggcttgg tctatagagg ttaagcccat	LLVIAAIASN LDTSLTASVA CICALDRCSR RYRETTISLV NAAVYSCRDA ENGHPLMDST L	A	Homo sapiens

352	6213	C-C Chemokine Receptor 5	NP_000570.1	<p> aaaaatggtt gatgaaaaat agcaaccttt ttatctcccc ttacatgca tcaagttatt gaaaaactct ccttcaactc cgaagtctc ttatgtatat ttaaaagaaa gctcagaga attgctgatt cttgagttta gtgatctgaa cagaaatacc aaaaattattt cagaaatgta caacttttta cctagtacaa ggcaacatat aggttgtaaa tgtgtttaaa acaggtcttt gtcttgctat ggggagaaaa gacatgaata ttttactga agaaatgaca ctttcatgt gtgatttccc ggagagctgg ggaagcttct taaatgagaa ggaatttgag ttggtcatc ttgtggcctg gaagacagaa gcctcactg aagcactgca tgggcaagct tggctgtaga tattgctggc aaagacagaa aagacatgg gaggaaggac aaggctagat catgaagaac aggagacaga gctgggttgg taagtcata gctgacgag gagatcctgg ttggtgttgc ctgacggca ttgctcctg ctaagtgagg caaggaaggat gacatttag ggcaaggaga agaaggttta ctctgtggc aaagtgagg tggcctctgc taagctcaag gcgtgaggat ccaccaacag cctcaggtc aggtgagga taagtgagg aaggaaggag agcatatgag ggaaggagg gaggtattcg taaggatgg aaggaaggag gtattcgtgc agcatatgag gatgcagagt cagcagaact ggggtggatt tgggttgaa gtgagggtca gagaggagtc agagaatc ctagtcttc aagcagattg ggaacacct tgaagaaca tcaagcacag aaggaggagg aggaggttta ggtcaagaag aagatggatt ggtgtaaaag gatgggtctg gttgcagag cttgaacaca gtctacca gactccagg tgtctttcac tgaatgcttc tgactcata gatttcttc ccatccagc tgaataactg aggggtctcc aggaggagac tagatttatg aatacacgag gtatgaggtc tagaataata cttcagctca cacatgagat ctaggtgagg attgattacc tagtagtcat ttcatgggtt gttgggagga ttctatgagg caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac tcattcaggg atagcactga gcaaacgatt gagaagagg gtccataata ggtgagggaa gctgaaaaaa ctaagatgct gctgcccag tgacacacaa gttaggtatc atttctgca ttttaaccgtc aataggcaaa ggggggaaag gacatattca ttggaaaaa agctgccttg agccttaaaa cccacaaaag tacaatttac cagcctcctg atttcagact gaatgggggt gggggggcg ccttaggtac ttattccaga tgccttctcc agacaaacca gaagcaacag aaaaaatcgt ctctccctc cttgaaatg aataaccccc ttagtgtttg ggtatatcca ttcaaaaggg agagagagag gtttttttct gttctttctc atatgattgt gcacatactt gagactgttt tgaatttggg gtaggctaa aaccatcata gtacaggtaa ggtgagggaa tagtaagtgg tgagaactac tcagggaatg aaggtgtcag aataataaga ggtgctactg actttctcag cctctgaata tgaacggtga gcatgtggc tgtcagcagg aagcaacgaa gggaatgtc ttctcttttg ctcttaagtt gtggagagt caacagtagc ataggacctt accctctggg ccaagtcaaa gacattctga catctagta ttgcatatt cttatgtatg tgaaggttac aaattgcttg aaagaaaaa tgcattcaat aaaaaacac ttcta LKSMTDIYLL NLAISDLFFL LTVFFWAHYA AAQWDFGNM CQLLTGLYFI GFFSGIFFII LLTIDRYLAV VHAFFALKAR TVTFGWTSV ITWVAVFAS LPGIIFTRSQ KEGLHYTCSS HFPYSQYQFW KNFQTLKIVI LGLVPLLM VICYSGLIKT LLRCRNEKKR HRAVRLIFTI MIVYFLEWAP YNIVLLNFT QEFFGLNCS SSNRLDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIKRF CKCCSIFQOE APERASSVYT RSTGEQEISV GL </p>	Homo sapiens
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353	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NM_003965	<p>tctgtctctg ggaagtggg cacacgttaa aaaaaatgtt tatttcagtc ttctgaataa A</p> <p>gggaattact ctggctaaaa ttagcttcca gaaagggaaa gtggggctgt atgaatccag</p> <p>gtccagtttg ttgtttctc caggataagg cagctgtcgg aggggaaaaat catctcccat</p> <p>ttctccacag ggcagtctga agatggccaa ttacacgtg gcaccagagg atgaatatga</p> <p>tgctctcata gaaggtgaac tggagagcga tggagcagag caatgtgaca agtatgacgc</p> <p>ccaggcactc tcagccacgc tggtgccatc actctgctct gctgtgtttg tgatcggtgt</p> <p>cctggacaat ctctgtgttg tgcttatcct ggtaaaaat aaagactca aacgcgtgga</p> <p>aaatatctat ctctaaact tggcagtttc taactgtgt ttctgtctta ccctgccctt</p> <p>ctgggtctat gctgggggcy atcccatgtg taaaattctc attgactgt acttcgtggg</p> <p>cctgtacagt gagacatttt tcaattgctt tctgactgtg caaaggtaac tagtgttttt</p> <p>gcacaaaggc aactttttct cagccaggag gaggtgccc tggggcatca ttacaagtgt</p> <p>cctggcatgg gtaacagcca ttctggccac ttgacctgaa tacgtggttt ataaacctca</p> <p>gatggaagac cagaataaca agtgtgcat tagcaaacct ccttctctgc cagctgatga</p> <p>gacattctgg aagcattttc tgactttaaa atgaaacatt tcggttcttg tcttccccct</p> <p>atttattttt acatttctct atgtgcaaat gagaaaaaca ctaagtttca gggagcagag</p> <p>gtatagcctt ttcaagcttg tttttgcat aatggtagtc ttcttctga tggggcgcc</p> <p>ctacaattt gcatttttcc tgtccacttt caaagaacac ttctcctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctatcgcca ccaccactg</p> <p>ctgcatcaac cctctcctgt atgcgtttct tgatgggaca tttagcaaat acctctgccg</p> <p>ctgtttccat ctgcgtagta acaccacac tcaaccagg gggcagctcg cacaaggcac</p> <p>atcgagggaa gaacctgacc attccaccga agtgtaaact agcatccacc aaatgcaaga</p> <p>agaataaaca tggattttca tctttctgca ttatttctat taaattttct acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgct agcactgaa</p> <p>tttgtctcag gcaccgtgca aggtctttta caaacgtgag ctctctgccc tcctaccact</p> <p>tgctccatagt tgggatatga ctagtctcat ttctctgaga agaaaactaa ggcgcggaaa</p> <p>tttgtctaa atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgtctgg tccagaacat caaactccaa accctgggga caaacgacat</p> <p>gaaataaatg tattttaaaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NP_003956.1	<p>MANYTLAPED EYDVLI EGEL ESDEAEQCDK YDAQALSAQL VPSLCSAVFV IGVLNLLV P</p> <p>LILVYKGLK RVENIYLLNL AVSNLCFLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTVQRYL VFLHKGNEFS ARRVPCGII TSVLAWVTAI LATLPEYVYV KPQMEDQKYK</p> <p>CAFSRTPFLP ADETFRKHL TLKMNISLV LPLFIFTFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVVELLM WAPYNIAFPL STFKEHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY</p> <p>AFLDGTFISKY LCRCFHLRSN TPLQPRQSA QGTSREEPDH STEV</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p>atgctgagccc cgggcgcgct tctcgccgc atgtcgccgc tactgtctct gctactgctc A</p> <p>aaggtgtctg cctcttctgc cctcggggtc gccctgctgc ccagaaaaa aacttgtctg</p> <p>ggggagagct gtgcacctac agtgatccag cgcgcgggca gggacgcctg gggaccggga</p> <p>aattctgcaa gagcgttct cctgagccga gcaaccagg aggagcaggg ggcagcgttt</p> <p>cttgccgggac cctctggga cctgcggcg gccccgggccc gtgacccggc tgcagggcaga</p> <p>ggggcgagg cgtcggcagc cggaccccc ggaactccaa ccaggccacc tggccccctg</p> <p>agggtggaaa gtgctcgggg tcaggagcct tctgaaactt tgggggagagg gaacccacg</p>	Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	<p>gacctccagc tcttcttca gatctcagag gaggaagaga aggtgtccag aggcgtggc atctccgggc gtaccagga gcagagtgtg aagacagtcc ccggagccag cgatctttt tactggccaa ggagagccgg gaaactccag ggttcccacc acaagccct gtccaagacg gccaatggac tggcggggca cgaagggtgg acaattgcac tcccgggccc ggcgctggcc cagaatggat ccttgggtga aggaatccat gagctgggg gtcccggccg gggaacacg acgaaccggc gtgtgagact gaagaacccc ttctaccgcg tgaccaggga gtctatgga gcctacgagg tcatgtgtct gtccgtggtg atcttcggga ccggcatcat tggcaacctg gcgtgatgt gcctgtgtg ccacaactac tacatgcgga ccatctccaa ctccctcttg gccaacctgg ccttctggga ctttctcacc gctgtggag gacttctctt gcctccgct ggtcatcttc cacgagctga ccaagaagtg gctgtggag gacttctctt gcaagatcgt gccctatata gagtcgctt ctctgggagt caccacctc accttatgtg ctctgtcat agaccgcttc cgtgtgccca ccaacgtaca gatgtactac gaaatgatcg aaaactgttc ctcaacaact gccaacctg ctgttatatg ggtgggagct ctattgttag cacttcaga agttgttctc cgccagctga gcaaggaga ttgtgggttt agtgcccgag tccggcgaga aagtgccatt attaagatct ctcctgattt accagacacc atctatgttc tagccctcac ctacgacagt gcgagactgt ggtgtattt tggctgttac ttbtgtttgc ccacgctttt caccatcacc tgctctctag tgactgcgag gaaaatccgc aaagcgtgtac ccgagggaat aaacggcaga ttcaactaga gactcagatg aactgtacag tagtggcact gacctttta tatggatttt gcattattcc tgaaaatata tgaacattg ttactgccta catggctaca gggttttcac agcagacaat ggacctcctt aatatcatca gccagtctct ttgttctttt aagtcctgtg tcacctcagt cctccttttc tgtctctgca aaccttcag tcgggccttc atggagtgtc gctgctgttg ctgtgaggaa tgcattcaga agtcttcaac ggtgaccagt gatgacaatg acaacgagta caccacggaa ctggaactct cgcctttcag taccatacgc cgtgaaatgt ccacttttgc ttctgtcga actcattgct ga</p>	Homo sapiens
357	6536	Putative Neurotransmitter Receptor (PNR)	NM_003967	<p>atgagagctg tcttcatcca aggtgctgaa gagcacccctg cggcattctg ctaccagtg A aatgggtctt gcccaggag agtacatact ctgggcatcc agttggtcat ctacctgacc tgtgagcagc gcattctgat tatcgtgcta gggaatgtat ttgtggcatt tgctgtgtcc tacttcaaa gccttcacac gcttcacac ttctgtctgc tctccctggc cctggctgac atgtttcttg gtctgtgtgt gctgcccctc agcacattc gctcagtgga gagctgtctg ttcttcgggg acttctctct cgcctctgac acctacctg acacctctt ctgcctcacc</p>	Homo sapiens

358	6536	Putative Neurotransmitter Receptor (PNR)	NP_003958.1	<p> tccatcttcc atctctgttt cattccatt gaccgccact gtgcatctgt tgacccctgt ctctatccct ccaagttcac agtgagggtg gctctcaggt acatctggc aggatggggg gtgcccgcag cacaacttc gttattcttc tacacagatg tggtagagac aaggctcagc cagtggctgg aagagatgcc ttgtgtggc agttgccagc tgctgtctca taaattttgg ggctgggtta acttcccttt gtctttgtc cctgctcca ttatgatcag ctgtatgtg aagatctttg tggttgttac cagacaggct cagcagatga ccacattgag caaagcctg gctggggctg ccaagcatga gagaaaagct gccaaagacc tgggcatctgt tgtgggcata tacctctgt gctggctgcc cttcaccata gacacagatgg tcgacagcct ccttcaactt atcacacccc cactggtctt tgacatctt atctggtttg cttacttcaa ctacgcctgc aaccccatca tctatgtctt tctctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tcttctcacc gcagacacgc actgttgatt tgtaccaaga atga MRAVFIQGA EHPAAFCYQV NGSCPRTVHT LGIQLVIYLT CAAGMLIIVL GNVFAFAVS P Homo sapiens YFKALHTPTN FLLLSLALAD MFLGLLVLP LSTRSVESCW FFGDFLCRLH TYLDTLFLCT SIFHLCFISI DRHCAICDEL LYPSEKTVRV ALRYILAGWG VPAAYTSLEL YTDVETRLS QWLEEMPCVG SCQLLNKFW GWLNFPLEFV PCLIMISLYV KIFVVAIRQA QOITTLKSLS AGAAKHERKA AKTLGIVVGI YLLCWLPFTI DTMVDSLHFE ITPPLVFDFI IWFAYFENSAC NPIIYVFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p>
359	6777	G Protein-Coupled Receptor TM7SF1	NM_003272	<p> cggcgcgatg cgcggagacc cccgcggggg cggcgccccc gatgagggcc A gagcgtcccc ggcgcgcggg cagcgccccc ggcgcgatgg agaccgcgcc gtgggaccca gcccgaacg actcgtgcc gcccacgctg acccggcccg tgcccccta cgtgaagctt ggcctcaccg tctctctac cgtgttctac ggcgtgctct accagagcgt ctctctctt ctctggctgg tctgctgta ccgccacaag cggctcagct accagagcgt ctctctctt ctctgcctct tctggcctc cctgcggacc gctctctctt ccttctactt caaagacttc gtggcgggcca attcgtcag ccccttcgtc ttctggctgc tctactgctt cctgtgtgc ctgcagtttt tcacctcac gctgatgaac ttgtacttca cgcagggtgat ttcaaaagcc aagtcaaaat attctceaga attactcaa tacgggttgc cctctacctt ggctccctc tctatcagcc ttgttttctt gttggtgaat ttaacctgtg ctgtgctgggt aaagacggga aattgggaga ggaaggttat cgtctctgtg cgaagtggcca ttaatgacac gctctctgtg ctgtgtgccg tctctctctc catctgtctc tacaataatct ctaagatgtc cttagccaac attacttgg agtccaaagg ctcctccgtg tgtcaagtga ctgccatcgg tgtcacctgtg atactgcttt acacctctcg ggcctgctac aacctgttca tctgtctatt ttctcagaac aagagcgtcc attcctttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctgg atactatta ttggagatgg tgttatttgt ttgggaactc ttacctacca ccttagtctg ttatttcttc cgaagttagaa atctacaaa ggaccttacc aacctggaa tggctcccg ccatggattc agtccagat ctatttctt tgacaacctt cgaagatatg acagtgatga tgaccttgc tggaaacattg cccctcagggt acttcaggga ggttttgctc cagattacta tgattgggga caacaaacta acagcttctt ggcacaagca ggaactttgc aagactcaac ttggatcct gacaaaccaa gccttgggtg gcatcagtta acagttttat ggacgatcc tcagatgaaa agcttcagaa aagcatagt acagctgaat tttaggggca ctttctcta agaaatagaa attgtttttt attgtttaca ggtttccaat ggcccatag gaataagcaa taatgtagac tgataaacc ttattttagt actaaagagg </p>

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRERPRPRG SAPGPMETPP YVQLWLVLRY RHKRLSYQSV PVCLQFFTLT LMNLYFTQVI KTNWVERKVI VSVRVAINDT VTVILLYTSR ACYNLFILSF WELLPTTLW YFFRVRNPTK LQGFAPDYY DWGQQTNFSL atggatcgag gtgccagtc agtgggttcc aggggactt gccagcaatg gcctggccct gccgtggctt tctctgtcca ccgtggccg cctacctcta ctggagcgct tcctcttcac agcctcaacc gctacctggg aagcacgctt gggccgtgag acactcagct tctccacct agggccgagg cctgcataca gcgatatagc tgggtctggc gcctacggcg ccctcgggcg ctgcgtgtgg cagcgttggg taccacatca tgcgggtgct agctttgcag acatagccca caggtgatgc ggggacctcat gcagtgcaca gcctgggctg ccagaggacg ccaagagcac ccgtcagagc ccagtcctcg AVVFSVQLAV SDLLCALTIP SLNRYLGIVH PFFARSHLRP RPEACIKCLG TADHGLAAYR LRVAALVASG VALYASSYVP	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLFSFYF FKAKSKYSPE LKRYRLPLYL LFVLCAVSL ICLYKISKMS SONKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG ctgccctgcc aactcttgg cctgtggccc atactggtgg gtaccgcttc agcatccgga gctggcagtc agcagacctg tcccccaa gactggcgct ctgcaacctg ctgggcagcg catcgtagac ccctctcttg cgctgccggc tgggtcctgg gaagaggccg cagcaggggg gtgtctgggg acagcagacc ggggttgggc tgcggcctgc ggccgtgcta cgcagcccg ggccagtggg gtggccctct caacgtggat gctcggcgcc ggccacagca gccctggagc ggccctggcc tctgtgtccc ctgctgccga cactgccccg tgcccaagcc ctgccccctc tgagctgagc caatga SGFQGDFLWP ILVVEFLVAV PLAAYLYPPK HWRYGEAACR KHAWAVSAAG WYLAALLAMP AYSILVLAGLG CGIPLLLTLA YHIMRVLNVD ARRWSTRCF	VFYALLFVFI P PFVFWLLYCF LVNLTCAVLV SSVCQVTAIG YVLFQVLFV DLAWNIAPOG cgacaaactc A cgctgcccgtg atggcacccc gacgtgccc cactgcccgc cacctgcac cctgcagccc ggccatgccc cagcgtggcc ggcctacaga cacgtggca ggccgagaag ctatgtgccc ccgtgccc cgtgggctac ctacatggcc cagctgggaa cgccccctc SIRKQRPWHP P LGSVIFITCI QQGAGNCSVA RSPGMTVAEK ALELGPYVGY	Homo sapiens
361	6853	Purinergic Receptor P2Y11	NM_002566	atggatcgag gtgccagtc agtgggttcc aggggactt gccagcaatg gcctggccct gccgtggctt tctctgtcca ccgtggccg cctacctcta ctggagcgct tcctcttcac agcctcaacc gctacctggg aagcacgctt gggccgtgag acactcagct tctccacct agggccgagg cctgcataca gcgatatagc tgggtctggc gcctacggcg ccctcgggcg ctgcgtgtgg cagcgttggg taccacatca tgcgggtgct agctttgcag acatagccca caggtgatgc ggggacctcat gcagtgcaca gcctgggctg ccagaggacg ccaagagcac ccgtcagagc ccagtcctcg MDRGAKSCPA NFLAAADKIL AVVFSVQLAV SDLLCALTIP SLNRYLGIVH PFFARSHLRP RPEACIKCLG TADHGLAAYR LRVAALVASG VALYASSYVP	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLFSFYF FKAKSKYSPE LKRYRLPLYL LFVLCAVSL ICLYKISKMS SONKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG ctgccctgcc aactcttgg cctgtggccc atactggtgg gtaccgcttc agcatccgga gctggcagtc agcagacctg tcccccaa gactggcgct ctgcaacctg ctgggcagcg catcgtagac ccctctcttg cgctgccggc tgggtcctgg gaagaggccg cagcaggggg gtgtctgggg acagcagacc ggggttgggc tgcggcctgc ggccgtgcta cgcagcccg ggccagtggg gtggccctct caacgtggat gctcggcgcc ggccacagca gccctggagc ggccctggcc tctgtgtccc ctgctgccga cactgccccg tgcccaagcc ctgccccctc tgagctgagc caatga SGFQGDFLWP ILVVEFLVAV PLAAYLYPPK HWRYGEAACR KHAWAVSAAG WYLAALLAMP AYSILVLAGLG CGIPLLLTLA YHIMRVLNVD ARRWSTRCF	cgacaaactc A cgctgcccgtg atggcacccc gacgtgccc cactgcccgc cacctgcac cctgcagccc ggccatgccc cagcgtggcc ggcctacaga cacgtggca ggccgagaag ctatgtgccc ccgtgccc cgtgggctac ctacatggcc cagctgggaa cgccccctc SIRKQRPWHP P LGSVIFITCI QQGAGNCSVA RSPGMTVAEK ALELGPYVGY	Homo sapiens
362	6853	Purinergic Receptor P2Y11	NP_002557.1	atggatcgag gtgccagtc agtgggttcc aggggactt gccagcaatg gcctggccct gccgtggctt tctctgtcca ccgtggccg cctacctcta ctggagcgct tcctcttcac agcctcaacc gctacctggg aagcacgctt gggccgtgag acactcagct tctccacct agggccgagg cctgcataca gcgatatagc tgggtctggc gcctacggcg ccctcgggcg ctgcgtgtgg cagcgttggg taccacatca tgcgggtgct agctttgcag acatagccca caggtgatgc ggggacctcat gcagtgcaca gcctgggctg ccagaggacg ccaagagcac ccgtcagagc ccagtcctcg MDRGAKSCPA NFLAAADKIL AVVFSVQLAV SDLLCALTIP SLNRYLGIVH PFFARSHLRP RPEACIKCLG TADHGLAAYR LRVAALVASG VALYASSYVP	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLFSFYF FKAKSKYSPE LKRYRLPLYL LFVLCAVSL ICLYKISKMS SONKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG ctgccctgcc aactcttgg cctgtggccc atactggtgg gtaccgcttc agcatccgga gctggcagtc agcagacctg tcccccaa gactggcgct ctgcaacctg ctgggcagcg catcgtagac ccctctcttg cgctgccggc tgggtcctgg gaagaggccg cagcaggggg gtgtctgggg acagcagacc ggggttgggc tgcggcctgc ggccgtgcta cgcagcccg ggccagtggg gtggccctct caacgtggat gctcggcgcc ggccacagca gccctggagc ggccctggcc tctgtgtccc ctgctgccga cactgccccg tgcccaagcc ctgccccctc tgagctgagc caatga SGFQGDFLWP ILVVEFLVAV PLAAYLYPPK HWRYGEAACR KHAWAVSAAG WYLAALLAMP AYSILVLAGLG CGIPLLLTLA YHIMRVLNVD ARRWSTRCF	cgacaaactc A cgctgcccgtg atggcacccc gacgtgccc cactgcccgc cacctgcac cctgcagccc ggccatgccc cagcgtggcc ggcctacaga cacgtggca ggccgagaag ctatgtgccc ccgtgccc cgtgggctac ctacatggcc cagctgggaa cgccccctc SIRKQRPWHP P LGSVIFITCI QQGAGNCSVA RSPGMTVAEK ALELGPYVGY	Homo sapiens

363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPLA FCVHPLLYMA AVPSLGCCR HCPGYRDSWN PEDAISTGQA LPLNATAAPK PSEPQSRSL Q	atggcttcac ccagcctccc gggcagtgac tgctcccaaa tcattgatca cagtcattgc A cccgagtttg agtggtccac ctggatcaaa atcaccttta ttctggtgta cctgatcatc ttcgtgatgg gccttctggg gaacagcgcc accattcggg tcaccaggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctcggacatc ttggtgttcc tcatacggcat gcccatggag ttctacagca tcattcggaa tccccgacc acgtccagct acacctgtc ctgcaagctg cacactttcc tcttcaggc ctgcagctac gtacagctgc tgacgtgct gacactcagc tttagcgtt acatgccat ctgtcacccc ttcaggtaaa aggtgtgtc gggaccttg caggtgaagc tgctgattgg ctctgtctgg gtcacctccg cctgtgtggc actgacctg ctgtttgcca tgggtactga gtacccccg gtgaacgtgc ccagccaccg ggtctcact tgcaaccgt ccagcacccg ccaccacgag cagcccgaga cctccaatat gtccatctgt accaacctct ccagcgtctg gaccgtgtc cagtcacaga tcttcggcg cttcgtgtc tacctgttg tctgtctctc cgtagcctc atgtgtgga acatgatga ggtgtctatg aaagccaga aggtctcgtt ggcgggggc acggggcctc cgcagctgag gaagtcgag agcaagaga gcaggaccg caggaggcag accatcatct tctgaggtt gattgtgtg acattggcg tatgctggtat gcccaaccg atcggagga tcatggtgc ggcacaccc aagcacgact ggacgaggtc ctactccg gcgtacatga tctctctcc cttctcgag acgtttttt acctcagctc ggtcatcaac cgcctcctgt acacgtgtc ctcgcagcag ttctcgcggg tgtctgtga ggtgtgtgc tgccgcctgt cgtgcagca cgcaaccac gagaagcgc tgcgcgtaca tgcgactcc accacgaca cgcgcgctt tgtgcagcg cgtgtctct cgcgtcccg gcgcagtc tctgcaagga gaactgagaa gattttctta agcattttt agagcagggc cgagccccg tctaagtcac agtcattgag tctcagatca cttagaccca actcaggcg gaaaccagc aatctgtctg cagagaatgg ttttcaggag catgaagttt ga	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1	MASPSLPGSD CSQIIDHSHV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQVLQK P KGYLQKEVTD HMVSLACSDI LVFLIGMPME FYSLIWNPLT TSSYTLSCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSMIC TNLSSRWTFV QSSIFGAFV YLWLLSVAE MCWNMMQVLM KSQKGSLAGG TRPPQLRKSE SEESRTARRQ TIIIFRLIVV TLAVCWMPNQ IRIRMAAAKP KHDWTRSYER AYMLLPFSE TFFYLSSVIN PLYTVSSQQ FRRVFQVLC CRLSLQHANH EKRLRVHAHS TTDSAREVQR PLLFASRRQS SARRTEKIFL STFQSEAEPO SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV	atggcgtgag cccgggagct tcccgctcgc gaagacccag acggcgtcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggtgccc caggggccgg gaacgcgagc caggcgggag cggggggagg ctggcacccc gaggcggtca tctgtccctt gctcttcgag ctcatcttcc tctgtggcac cgtgggcaac acgtgtgtgc tggcgtgtgt gctgcgggc ggcaggcgg tcagcactac caacctgtc atccttaac tgggcgtggc gacacctgt ttcatcctgt gctgcgtgccc cttccaggcc accatctaca cctggagcgg ctgggtgtc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttcc tcaccatgca cgcagcagc ttcagcgtgg ccgccgtctc cctggacagc tatctggcca tccgtacccc gctgcactcc	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	ggacaggtgc cccgggagct tcccgctcgc gaagacccag acggcgtcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggtgccc caggggccgg gaacgcgagc caggcgggag cggggggagg ctggcacccc gaggcggtca tctgtccctt gctcttcgag ctcatcttcc tctgtggcac cgtgggcaac acgtgtgtgc tggcgtgtgt gctgcgggc ggcaggcgg tcagcactac caacctgtc atccttaac tgggcgtggc gacacctgt ttcatcctgt gctgcgtgccc cttccaggcc accatctaca cctggagcgg ctgggtgtc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttcc tcaccatgca cgcagcagc ttcagcgtgg ccgccgtctc cctggacagc tatctggcca tccgtacccc gctgcactcc	Homo sapiens	

366	7221	Galanin Receptor GalR2	NP_003848.1	<p> cgcgagctgc gcacgcctcg aaacgcgtg gcagccatcg ggctcatctg ggggctgtcg ctgtcttctt cgggccccta cctgagctac taccgccagt cgcagctggc caacctgacc gtgtgccatc cgcgtggag cgcctctgc cgcgcgcca tggacatctg cactctctgc ttcagctacc tgcctctgt gctggtctc ggcctgacct acgcgcgac cttgcgctac ctctggcgcg cgcgtgacct ggtggccgcg ggtctgggtg cccgcgcgc caagcgcaag gtgacacgca tgatctcat cgtggccgcg ctctctgtgc tctgtggat gccccaccac gcgctcatcc tctgcgtgtg gttcgccag ttcccgctca cgcgcgccac ttatgcgctt cgcctctct cgcacctggt ctctacgcc aactcctgc tcaaccccat cgtttacgcg ctggtctcca agcactccg caaaggctc cgcacgatct gcgcggcct gctgggcctg gccccaggcc gagcctcggg ccgtgtgtgc gctgcgcgc gggcaccca cagtggcagc gtgttgagc gcgagtcacg cgcctgttg cacatgagc aggcggcggg ggcctctcgt ccctgccccg gcgcttcca gccatgcac ctcgagccct gtcctggccc gtcctggcag ggcccaagg cagcgacag cctcctgac gttgatgtg cctgaaagca cttagcgggc gcgctgggt gtcacagagt tggagtcatt gttgggggac cgtgggcg MNVGCPGAG NASQAGGGG WHPEAVIVPL LFALIFLVGT VGNLVLAVL LRGQAVSTT P Homo NLFILNLGVA DLFCILCCVP FQATYITLDG WVFGLLCKA VHFLIFLTMH ASSETLAASV sapiens LDRLAIRYP LHSRELRTPR NALAAIGLIW LVGLTYART IRYLMRAVDV VAAGSGARRA KRKVTRMILI APRRAMDIC TFVFSYLLPV LVLGLTYART IRYLMRAVDV VAAGSGARRA KRKVTRMILI VAALFCLCWM PHHALILCWM FGQFPLTRAT YALRILSHLV SYANSCVNPI VYALVSKHFR KGFRTICAGL LGRAPGRASG RVCAAARGTH SGSVLERESS DLLHMEAAAG ALRCPGASQ PCILEPCGP SWQPKAGDS ILTVDA </p>	
367	7246	Orexin Receptor 1	NM_001525	<p> ctctccctta ggaagtbtga ggcctgagacc cgaagagacc tgggtgcaag cctccaggca A Homo ccctgaaggg atgtggctga ggcctggccc agctccctc ctctccctct gttagagccta sapiens ggatgcccc ctgctcgagc gctcctgag ctcctgagc cctcagccac ccaggggccc cagatggggg tccccctgg cagcagagag ccgtcccctg tgcctccaga ctatgaagat gagttctcc gctatctgtg gctgattat ctgtacccaa aacagtatga gtgggtcctc atcgagcct atgtggctgt gttcgtctg gctcgtgtg gcaacagct ggtctgcctg gccgtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc ctggctgacg ttctggtgac tgctatctgc ctgcccggcca gcctgctggt ggacatcact gagtcctggc tgttcggcca tgcctctgc aaggtcatcc cctatctaca ggctgtgtcc gtgtcagtgg cagtgtaac tctcagctc atcgccctgg accgtggta tgcctctgc caccactat tgttcaag cagagcccg cacagcccg gggcccctg gctccctct ggcctctg gctgtgtcgc tggccatcat ggtgccccag gctgcagtc tggaaatgag cagtgtgctg cctgagctag ccaaccgac aggtctctc tcaatctgt atgaacgctg ggcagatgac ctctatccca agatctacca cagttgtctc ttatgtga cctacctggc cccactgggc ctcatggcca tggcctatt ccagatattc cgaagctct gggcccgcca gatccccgc accacctcag cactggtgag gaactggaag cgcctctcag accagctggg gacctggag cagggcctga gtggagagcc ccagccccg ggcgcgcct tccctgctga agtgaagcag atgctgtcac ggaggagag agccaagatg ctgatggtg gttcgtggt cttcgcctc tgttacctgc ccataagcgt cctcaatgtc ctaagaggg tgttcgggat gttccgcca gccagtgacc gcgaagctgt ctacgcctgc ttcaccttct cccactggct ggtgtacgac </p>	

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPGAQ MGVPGRSREP SPVPPDYDE FLRYLWRDYL YPKQYEWVLI AAYVAVFVA P LVGNTLVCLA VRNHHMRTV TNYFIVNLSL ADVLVTALCL PASLLVDITE SWLFHALCK VIPYLAQAVSV SVAVLTSFI ALDRWYAICH PLEFKSTARR ARGSIIGIWA VSLAIMVPOA AVMECSSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWK R PSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML MVLLVFALC YLPISVLNVL KRVEGMFRQA SDREAVYACF TFSHWLVVAN SAANPIIYNE LSGKFREQFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggagctgagc tttctctctc tgggtgtcatt A gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatctctcc ggtgcaacat cgctgtaaa gacagcaag ccaccgcaga agtgcccg cagaagactc cggaggcatt ggctcagtaa cttttcagct catcttctgc tcgggagccc ctctagcct ctcgcgcag cctttccac cgcaaatcac cagtgtcat gggcagggcg gagaggagct tgcagcattg agcggaaacc gacttgagcc cgtgatgtcc ggcccaaat tggaggactc ccccccctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agccctttt aaacccacc gactatgacg acgaggaatt cctgcggtac atctgtgtcg aatacctgca cccgaaagaa tatgagtggg tctgtatgc cgggtacatc ctcgtgttcg tcgtggctct cattgggaac gtcctgggtt gtgtggcagt gtggaagaac caccacatga ggacggtaac caactacttc atagtcaatc tttctctggc tgatgtgtc tgaccatca cctgccttc agccacactg gtcgtggata tcactgagac ctgggttttt ggacagtcctc ttgcaaaagt gattccttat ctacagaccg tgcggtgtc tglgtctgtc ctacactga cgtgtatgc cttggatcgg tggatgcaa tctgtcacc tttgatgtt aagagcacag caaagcggc ccgtaacagc attgtcatca tctgattgt ctcctgcatt ataattatc ctcaggccat cgtcatggag tgcagcaccc tgttcccagg cttagccaat aaacacccc tctttacggt gtgtgatgag cgtgggggtg gtgaaattta tcccaagatg taccatctc gtttcttctt ggtgacatac atggcaccc tgtgtctcat ggtgttggt tatctgcaa tttctgcaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagagaaaat ggaagcccc gcagcctgtt tcacagctc gaggccagg acagccaacg aagtcocgga tgagcgtgt ggcggctgaa ataaagcaga tccgagccag aaggaaaaa gcccgatgt tgatggttgt gcttttggta tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgcccata ctgaagacag agagactgtg tatgcctggt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt atttataatt ttctcagtg aaaaattcga gaggaattta agctgcgtt ttctgtgtg tgcctggag ttaccatcg ccaggaggat cggctcacca ggggacgaac tagcacagag agccggaagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p>aactttgata acatatcaaa actttctgag caagttgtgc tcaactagcat aagcacactc ccagcagcca atggcagcagg accacttcaa aactggtaga atatttattc atatgacaa gatacctgag taaaactatc ctttttaaaa tcaactgggaa cagaaaattttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaaa aaaaaaaa aaa</p> <p>MSGTKLEDSP PCRNWSSASE INETQEPFLN PTYDDEEFL RYLWREYLHP KEYEWVLIAG P YIIIVFVALI GNVLCVAVW KNHMRVTVN YFIVNLSLAD VLVTTICLPA TLVVDITETW FFQSLCKVI PYLQTVSVSV SVLTLSLAL DRWYAICHPL MFKSTAKRAR NSIVIIWIVS CIIMIPQAIW MECSTVFPGL ANKTTLTVC DERWGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPQ PTKSRMSAVA AEIKQIRARR KTARMLMVVL LVFAICYLPI SILNVLKRVF GMFAHTEDRE TVYAWFTFESH WLVIYANSAAN PIIYNFLSGK FREEFKAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLSLTQ ISNFDNISKL SEQVVLTSIS TLPANGAGP LQNW</p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p>ccagctgata ttccagccca cagcaatgga gccacatgac tctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgtctg gggctcattgc taatggctac gtgctgttgg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcacatggc ggacatgctc ttcttgatca ccttgccact ttggattgtc tactacaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaaccta ctgtcttctg gccttctctg gctgcatcac ttataaccgc ttccaggcag taactcgcc catcaagact gctcaggcca acacccgcaa gcgtggcatc tctttgtcct tggatcatct ggtggccatt ggtggagctg catcctactt ctcatcctg gactctacca acacagtgc cagcagtgc ggtcaggca acgtcaactc ctgctttgag cattacgaga agggcagcgt gccagctctc atcatccaca tcttcatcgt gttcagcttc ttcctggtct tctcatcat cctcttctgc aacctgtca tcatccgtac cttgctcatg cagccggtgc agcagcagc caacgctgaa gtcaagcgc gggcgtgtg gatggtgtgc acggtcttgg cgggttctat catctgtctc gtgcccacc acgtggtgca gctgcccctg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcacat caggtcaccc tctgctcct tagcaccac tgtgtcttag accctgttat ctactgttcc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagcccg aaatgctccc gggccaccac ggatacggtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcctcaaaa ttagtacttg cttc</p> <p>MADMLFLITL PLWIVYQNO GNVILPKFLC NVAGCLFFIN TYCSVAFVGV ITYNRFQAVT P RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHYKKG SVPVLIHIF IVSFLLVFL IILFCNLVII RTLLMQPVQQ QRNAEVKRRRA LWMVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDP VIYCFLTKEK RKHLTEKFPYS MRSSRKCSRA TTDVTVEVW PFNQIPGNSL KN</p>	Homo sapiens
372	8436	Platelet- Activating Factor Receptor	NP_000943.1	<p>MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGVYLVWF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYQNO GNVILPKFLC NVAGCLFFIN TYCSVAFVGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHYKKG SVPVLIHIF IVSFLLVFL IILFCNLVII RTLLMQPVQQ QRNAEVKRRRA LWMVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDP VIYCFLTKEK RKHLTEKFPYS MRSSRKCSRA TTDVTVEVW PFNQIPGNSL KN</p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Ls8509	NM_007223	<p>tggggggcgtc ctccttcgtc cccgcccgcg tgtcaagctg tgttctagcg gccgagggac A cgagggggggc taagaaaagg ggcgcccagc catcgagagg caaaaaggcg ctgcggaaag gggtcccccgt cgccagtgct gaggcaggag gtcggagcca cagtgaggcg gctggggaagc aggacccagc acgggctgtc tggcaggcgg ccggggcgag gcccaggctg ctgggggacgc</p>	Homo sapiens

tcagggtctt ccaccaagc catggggcgt gtggggcact cgggggtccc ctctgggtc
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cgcggagccg gactccacgc tccggcgcc gtgtaccgc caccgtgcag gtctcatct
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agaagcggct gcttcccc ctgggaaca tggggaaga gctgacag acaaggtgc
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gtccacatta ttctctgt ggacaagagc tgggcagttt tgaatgggtc ttgaggtggg

374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	taaccatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttacagagctc acaggagcag ggagcaggag cactctaagg gaattc MGHNGSWISP NASEPHNAG AEAAGVNRSA LGEFGEAQLY RQFTTVQVW IFIGSLLGNF P MVLWSTCRTT VFKSVTNRFI KNLACSGICA SLVCVPFDII LSTSPHCWV IYTMFLCKVV KELHKVFCSV TILSFAIAL DRYYSVLPL ERKISDAKSR ELMYIWAHA VVASVPVEAV TNVADIYATS TCEVMSNSL GHLVYLVYN ITTVIVPVV VFELILIRR ALSASQKKKV IIAALRTPQN TISIPYASQR EAEHLATLLS MMVFILCSV PYATLVVYQT VLNVPDTSVF LLLTAWLPK VSLLANPVLV LTANKSVRKC LIGTLVLQHH RYSRNVVST GSGMAEASLE PSIRSGSOLL EMFHIGOOI FKPTEDDEES EAKYIGSADF QAKEIFSTCL EGEQGPQFAP SAPPLSTVDS VSQVAPAPV EPETFPDKYS IQFGFGPFEL PPQWLSETRN SKRLLPPLG NTPEELIQTK VPKVGRVERK MSRNKVSIF PKVDS Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	ttgataggga tagaaacaca ttggctgctg tctatagtta acaagatgct gttacattcc A ttgcctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc tggatatattg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaatctgca ttgatatctt gggttctgtt tcatttttta gggctcgaag agcacgctca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgcctcac aacaaggtgc cttcaaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaat ggaagtttcc ctaaaaccac cagcatctaa tacaaccagc acaaagaaca acaactcggc atttttttac tttagagtcct gtcaacctcc ttctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tgggaccttt tggaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatctcac cagcatactg attgccaatc tctccctctc tgataccttg gtgtgtgtca tgtgcatacca ttttactatc atctacactc tctcaatctc ctggatatatt ggggatacca tgtgcagact cacatcctat gtcagagtg tctcaatctc tgtgtccata ttctcacttg tattcactgc tgcgaaaga tatcagctaa ttgtgaacc ccgtggctgg aagcccagtg tgactcatgc ctactggggc atcacactga ttgggtgtgt ttccctcttg ctgtctatcc ccttctctt gtctaccac ctcaactgat agccctctcg caacctctct ctccccactg acctctacac ccaccaggtg gctgtgtgg agaactggcc ctccaaaaag gaccggctgc tcttccacc ctcccttttt ctgtgcagt atttgttcc tctaggcttc atcctcatct gctacttgaa gattgttatc tgctccgca ggagaaatgc aaaggtagat aagaagaagg aaaatgaggg ccggctcaat gagaacaaga ggatcaacac aatgttgatt tccatctgtg tgacctttgg agcctgctgg ctgccccgaa tatcttcaat gtcatctttg actggtatca tgaggtgctg atgagctggc accacgacct ggtatttga ttgtgccact tggttgctat ggtttccaca tgtataaacc ctctctttta tggctttctc acaaaaaatt tccaaaaagg cctggtagtg cttattcacc actgctgggtg cttcacact caggaaagat gtgaaaatat tgccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataacaac aggtatatga aaattgataa tgctgaagct cttcttgaat gggagctgga caggtaatgg tgggaatagg gcaagatgca gaaagaaga accagaacca aaatatagca cttataccc acttttctt taggctaaga gtgcctgtct catatgtcta tccaacacac cttccaaact acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacacac ctgcccgcga tcatttgttg

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	mevslnhpas nttstknns affyescqp pspallllci aytvvlivgl fgnlsllili P sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	akvdkkkene grlnenkrin tmlisivtf gacwlpriess msslgtimrc catccccacc ctctcttctt taataagcag gagcgaaaa gacaaattcc aaagaggatt A sapiens
				gttcagttca agggaaatgaa gaattcagaa taattttggt aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtctaaa ataatctata acaaccaaac caatcaaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccag ctctcggctt ttgaaaaatga tgattgtcat ctgaccttgg ccatgatatt tacttagct ctgcttatg gagctgtgat cattcttgggt gtctctggaa acctggcctt gatcataatc atcttgaaaac aaaggagat gagaaatgtt accaacatcc tgatttgtaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttggtgaggg gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcaggggt ggagacaaa taatagacat gcttatgtag gtattgtgtg gatttgggtc ctgtcgtgtg ctctctctt gctttctctg atctaccaag taatgactga tgagccgttc caaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata gtttgtctta taccactctc ctcttgggtc tgcagtattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taaaaggag aaacacatg atggacaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgagtc tgctggctcc ctcttaccat ctttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgtc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctcctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggtcccgat gacatctgtt taaaaacaag cacaacctgc acatacttt gattacctgt tctcccaagg aatgggggtt aaatcatttg aaatgacta agattttctt gtcttgcctt ttactgcttt tgttgtagt gtcataatta catttggaac aaaagggtg ggctttggg tcttctggaa atagttttga ccagacatct ttgaagtgtt ttttgtgaat ttatgcata aatataaaga cttttatact gtacttattg gaatgaaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccatacaata cgggtcattag attgggtcat cttagattaga ttagattaga ttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgta caatagtaac agtatgcaa agcagcattc aggagccgaa agatagctct gaagtcattc agaagtgggt tgagggttct gtttttgggt ggtttttgtt tgtttttttt ttttttcacc ttaagggagg ctttctattc ctccgactg attgtcactt aaatcaaaat

378	9421	Neuropeptide Y Receptor Type 1	NP_000900.1	<p> ttaaataatga ataaaaagac atacttctca gctgcaataa ttatggagaa ttgggcaccc acaggaatga agagagaag cagctcccca acttcaaac catttggtta cctgacaaca agagcatttt agagtaatta atttaataaa gtaaatagat attgctgcaa atagctaaat tatatttatt tgaattgatg gtaagagat ttccattttt ttttacagac tgttcagtggt ttgtcaagct tctgggtctaa tatgtactcg aaagactttc cgctacaat ttgtagaaac acaatatcg ttttccatcg agcagtgcct atatagtac tgattttaac ttcaaatgtc catctttcaa aggaagtaac accaaggtac aatgttaaa gaaattcaac ttacactagc agggaaaaat acacaaaaac tgcagatact tcatatagcc cattttaact tgtataaact gtgtgacttg tggcgctcta taaataatgc actgtaaga ttactgaata gttgtgtcat gttaatgtgc ctaatttcat gtatcttgta atcatgattg agcctcagaa tcatttggag aaactatatt ttaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgtttgattt taaaaggcg gacattttat taaatcaat attgtttttg ctttttctga ggagtctctt tcagtttcat ttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNFESE KNAQLLAFEN DDCHLPLAMI FTLALAYGAV IILGVSGLA P LIILILKQKE MRNVTNLIIV NLSFSDLLVA INCLPFTFVY TLMDHWFGE AMCKLNPFVQ CVSITVSIFS LVLIIVERHQ LIINPRGWRP NNRHAYVGVIA VIWVLAVASS LPFLIYQVMT DEPFQNVTLT AYKDKYVCFD QFPSDSHRLS YTTLLLVLYQY FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETR INIMLLSIVV AFVWCWLPLT IFNTVFDWNH QIIATCNHNL LFLLCHLTAM ISTCVNPIFY GFLNKNFQRD LQFFNFECDF RSRDDYETI AMSTMHTDVS KTSILKQASPV AFKKINNND NEKI </p>	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	NM_004382	<p> agccgagcga gcccgagat gggaggcac ccgcagctcc gtctctgcaa ggccttctc A ctctggggc tgaaccccg cctctgctcc ctcaggacc agcactgca ggcctgtcc ctggccagca acatctcaga caatggctac cgggagtgc tggccaatgg cagctgggc gcccggtga attactcga gtgccaggag atcctcaatg aggagaaaa aagcaaggtg cactaccatg tcgcagtcat catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtcctctt tctgcggctc agtagcatcc ggtgcctgcg aaacatcatc cactggaaac tcattctcgc cttcatctg cgaacgcca cctgggtcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctgggt gcaggttgggt gacagccgc tacaactact tccatgtgac caacttctc tggatgttcg gcgagggtg ctacctgcac acagccatcg tgctcaccta ctccactgac cggctgcgca aatggatgtt catctgcatt ggctgggggtg tgcccttccc catcatttg gcttgggcca ttgggaagct gtactacgac aatgagaagt gctggtttgg caaaggcct ggggtgtaca ccgactacat ctaccaggc cccagatcc tggctcctgt gatcaatttc atcttctt tcaacatcgt ccgcatctc atgaccaagc tccgggcac caccagctc gagaccata agtacaggaa ggtgtgaaa gccactctgg tctgtctgccc cctctgggc atcactaca tgctgttctt cgtcaatccc gggaggagatg aggtctccc ggtcgtcttc atcacttca actcctcctt ggaatccttc cagggttctt ttgtgtctgt gtctactgt ttcttcaata gtgaggtccg ttctgccatc cgggaagaggt ggcacgggtg gcaggacaag cactcgatcc gtgcccagat ggcctgtg atgtccatcc ccactctccc aaccctgtg agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

380	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	MGHPQLRLV KALLLLGLNP VSASLQDQHC ESLSLASNIS DNGYRECLAN GSWAARVNYS P	Homo sapiens
				EQEILNEEK KSKVHYHVAV IINYLGHICIS LVALLVAFVL FLRLRSIRCL RNIIHWNLLIS	
				AFILRNATWF VVQLTMSPEV HQSNVGVWCL VTAAYNYFHV TNFFWMEGEG CYLHTAIVLT	
				YSTDLRLKWM FICIGWGVPF PIIVAWAIGK LYDNEKWCWF GKRPGVYTDY IYQGPMLVL	
				LINFIFLNI VRILMTKLRA STTSETIQYR KAVKATLVLL PLLGITYMLF FVNPGEDEVS	
				RVVFIYNSF LESFQGFVS VFYCFNLSEV RSAIRKRWHR WQDKHSIRAR VARAMSIPTS	
				PTRVSFHSIK QSTAV	
381	10457	Frizzled-2	NM_001466	cgagtaaaagt ttgcaaaagag gcgcgggag gcgcagccgc agcgaggag cggcggggaa A	Homo sapiens
				gaagcgaggt ctcggggtg gggcggggg gcgggggggc gcaaggagc cggtggggg	
				ggcggggcca gcatgggccc ccgcagcgc ctgccccgc tgcgtgctg gctgctgctg	
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				acggtggtgc agggcacc aaaggagggc tgcaaccatc tcttcatgat gcttacttc	
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				tgggcccgtgc cgccgctcaa gaccatcac atcctggcca tgggccagat cgacggcgac	
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				ccc	

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386	14198	Interleukin- 8 Receptor B	NP_001548.1	MEDFNMESDS	FEDFWKGEDL	SNYSYSSTLP	PFLDDAAPCE	PESLEINKYF	VVIIYALVFL	P	Homo sapiens
				LSLLGNSLVM	LVILYSRVGR	SVTDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFCLK		
				VVSLKEVNF	YSGIILLACI	SVDRYLAIVH	ATRTLTKRY	LVKFICLSIW	GLSLLALPV		
				LLFRRTVYSS	NVSPACYEDM	GNNTANWRML	LRILPQSEFG	IVPLIMLFC	YGFTLRTLFX		
				AHMGQKHRAM	RVIFAVVLIF	LLCWLPYNLV	LLADTLMRFT	VIQETCERN	HIDRALDATE		
				ILGILHSCIN	PLIYAFIGQK	FRHGLLKILA	IHGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
				cagaattcca	ggacaagag	atcttcaaaa	atcaaaaatg	aggttcacat	ttacaagccg	A	Homo sapiens
387	14641	Calcitonin Receptor	NM_001742	gtgcttgcca	ctgtttcttc	ttctaataca	ccccacccca	attcttcctg	ccttttcaaa		
				tcaaacctat	ccaacaatag	agcccaagcc	attcttttac	gtcgtaggac	gaaagaagat		
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				ttctgatgtt	actgagatgt	tttaccatcc	ttacaatgta	aaccacatga	actacgtgac		
				ctctgcaaga	caaagcggct	ttctaataga	gagatgtgaa	aatatgtgaa	gaaaaagacc		
				tgcatttggc	aggaagatgt	atgctttgaa	tgcataagaa	attttagatc	aatttgctga		

388	14641	Calcitonin Receptor	NP_001733.1	<p> aaacattaca tgctcagctt ggttttggac aagcctgtcc attgggcagg acctagctgt tgtaagaat tggctttaat gttgaatgta ttttggtgc caaaatata attcttagtg gtcacaaaaga atctatcact aaaaattttt acaaaatgc caaaatata attcttagtg gaagacaata ctccctttaa agagagtttg ccactccct aaactccagg atttataaag caaattactc caaggtttat aaagcagatt acctctgac cttgggtgct atctagcagt aaaagataaa ttgtgtgaat attggttaatt aaagactcc acataagtc attaactgct ttccacccag ctccaagct taaaagagc ttgttcttctt ccaggaaagt ccaggagggc taattagaaa tcaactgtg gttgacgct gtttcttctt tattaccaa caggaggga aaaaattaac tgcctcaaat ttaaccataa atcaattcat gtttaacgtt tctcatataa atccagtatt atattatcat atctctctt acttccagt ataagatttt tgaatactct gaataaaacca gtatcggttac tggcacctga aattaatttg tgaatttgca acagtaata gagttaccat tatttaattt gtatgctaaa tgaggaggta cattgaaacc ctccaaatct ccagtctcat ctatgtcata ttttgccact gcctttcaga agtgatttag ttgtggaaag ataataaatt gattgttat ggtacatat ttagcgacc cagagaaaa taattatatt tctacagaga aatgaattt gggatactaa agtagtttaa gtctccttta ctgaatgtaa gggggggac gaaagaaagg tatttttcca atcacagtg tatgtagtat tgttctattt ttgtttacaa acatggaaaa cagagtatt ctggcagctg tggtaacaa gtgataatat attgctaaaa tatttagat gttattatgc taatatagta ggggttgaag aaacaaaaat agcttattat agaattgcac atagttctgc ccaaatatag tgaattgctt atgcttctgt atatgtataa attaatag agtacgttaa aagcaaaaa atgtatatatt gcatattttt ctaaagaaat atattattca tcttttctt c </p>	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	<p> MRFTTSRCL ALFLLNHPT. PILPAFSNQ YPTIEPKFL YVGRKKKMD AQYKCYDRMQ P QLPAYQGE YNCRWDGWL CWDDTPAGVL SYQCPDYFP DFDSEKVTK YCDEKGVWFK HPENNRWTSN YTMCAFTPE KLNAYVLY LAIVGHSLSI FTLVSLGQF VFFRSLGQCR VTLKNNMFLT YILNSMIII HLVEVVPNGE LVRRDPVSK ILHFFHQYMM ACNYFWMCLCE GIYLTLLIV AVTEKQRLR WYLLGWGFP LVPTTIHAI RAVYENDNCW LSVETHLLYI IHGPVMAALV VNFELNLIV RVLVTMRET HEAESMYLK AVKATMILVP LLGIQFVVFP WRPSNKMGLK IYDYVMHSLI HFQGFVATI YCFCNNEVQT TVKRQWAQFK IQWNQRWGRR PSNRSARAAA AAEEAGDPI YICHQELRNE PANNQGEESA EIIPLNIEQ ESSA caaacgttcc caaatcttc cagtcggctt gcagagactc ctgctccca ggagataacc A agaagctgca tctattgac agatggtcat cacattggtg agctggagtc atcagattgt ggggcccgga ttgagctga agggagtga tcagagcact gctggagagt cacctctact ttcctgctac cgctgctgt gagctgaag ggctgaacca tacactcctt ttctacaaac cagcttgcat ttttctgct caaatgagc ggggaatcaa tgaatttcag cgatgttttc gactccagtg aagattattt tgtgtcagtc aatactcat attactcagt tgattctgag atgttactgt gctccttgca ggaggtcagg cagttctcca ggctatttgt accgattgcc tactccttga tctgtgtctt tggcctcctg gggaatattc tgggtgtgat cactttgtct ttttataaga aggccaggct tatgacagac gtctatctct tgaacatggc cattgcagac atctctcttg tcttactct ccatcttg ggagtgagtc atgcccactg tgcgtgggtt ttcagcaatg ccactgcaa gttgtctaaa ggcattctatg ccatcaactt taactgcggg atgctgctcc tgacttgcat tagcatggac cgggtacatcg ccattgtaca ggcgactaag </p>	Homo sapiens

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390	16041	C-C Chemokine Receptor 6	NP_004358.1	MSGESMNFSD VFDSSDYFV SVNTSYYSVD SEMLLCSLQE VRQFSRLFVP IAYSLLICVFG P LLGNILVWIT FAFYKKARSM TDVYLLNMAI ADILFVLTLF FMAVSHATGA WVFSNATCKL LKGIIYAINFN CGMLLTCTIS MDYIAIVQA TKSFRLRSRT LPRTKIIICLV WGLSVIIS STFVENQKYN TQSDVCEPK YQTVSEPIRW KLMLGLELL FGFPIPLMFM IFCYTFIVKT LVQAQNSKRH KAIRVIAV LVFLACQIPH NMVLIVTAAN LGMNRSQCS EKLIGYTKTV TEVLAFLHCC LNPVLYAFIG QKFRNYFLKI LKDLWCVRK YKSSGFSCAG RYSENISRQT SEPADNDNAS SFTM	Homo sapiens
391	16599	Smoothened	NM_005631	atggccgctg cccgccagc gcggggggcgc gagctccgcg tccctggggct gctgctgctg A ctgctgctgg gggaccggcg cggggggcg gcctcgagcg ggaacgcgac cgggcccggg cctcgagcg cggcggggag cgcgaggag agcgcgcgcg tgactggccc tccgcgcgcg ctgagccact gcggccggcg caccctccg cactccaca ctgctggcgc gactacggt gtgcctgggc tcgggtgctgc cctacggggc gctctggtcg ggcctccgga atgcccccg ctgctgggca gaagcgacg ccaagctcgt gtcctgtatc atgcccagt gtgagaatga ccgggtggag gtgatccagc ccctgctgtg gtccgtatc caggccacc caggccccc gtgccatcgt ggagagggag ctgccacgac gtaccctctg cgcctgcact cctgaccgct tccctgaagg ctgcacgaat cggggctggc ctgacttcc acatcaagtt caacagttca ggcagtgcg aagtgcctt ggttcggaca gacaaaccca agagctggtg agagacgtg gagggctgcg gcatccagt ccagaacccg ctcttcacag aggctgagca ccaggacatg cacagctaca tcgcggcctt cggggccgctc acgggctctt gcaagctctt caccctggc acatcgttg ctgactggcg gaactcgaat cgctacccctg ctgthattct ctctacgtc aatgctgct tctttgtgg cagcattggc tggtggggcc agttcatgga tggtgccgc ctccaatgag actctgtcct gcgtatcat ctttgtcatc atgaggcttg gggagccccc ccccaatgag actctgtcct gcgtatcat ctttgtcatc gtgtactacg ccctgatggc tgggtggtgt tgggtgtggt tccctaccta tgcctggcac acttccctca agccctggg caccacctac cagcctctct cgggcaagac ctctacttc cacctgctca cctggtcact cccctttgtc ctactgtgg caatccttc tgtggcgag gtgatgggg actctgtgag tggcatttgt tttgtgggct acaagaacta ccgataccgt gcgggcttcg tgctggcccc aatcgccctg gtgctcatcg tgggaggtta ctctctcatc cgaggagtca tgactctgtt ctccatcaag agcaaccacc ccgggctgct gagtgaaga gctgccagca agatcaacga gaccatgctg gcctcgggca tttttggctt cctggccttt ggctttgtgc tcattacctt cagctgccac ttctacgact tcttcaacca ggctgagtgg	Homo sapiens

Homo sapiens

393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQGAW TLVSNPFCPE PSPQDPFLP SAPAPVAWAH GRRQGLGPIH SRTNLMDEL MDADSDF	atggcctgca acagcacgtc ccttgaggct tacacatacc tgcgtgtgaa caccagcaac A gcctcagact cggggtccac ccagttgcc ccacccctca ggatctcctt ggcatactg atgctgtga tgcctgtggt ggggttcctg ggcaacactg tggctgtcat catcgtgtac cagaggccgg ctatgcgtc ggccatcaac ctgctcgtg ccaccctggc ctctccgac atcatgctgt cctctgctg catgccctc accgccgtca cctcatcac cgtgcgctgg cactttgggg accactctg ccgcctctca gccacgtct actggtttt tgcctggag ggcgtggcca tctgtctcat catcagcgtg gccgcttcc tcatcatcgt ccagcgccag gacaagctga acccgccag ggccaagtg atcatcgcg tctcctgggt gctgtcctc tgcacgcgg ggccctcgt caccggctgg acgtggtgg aggtgccggc gggggccccca cagtgcgtg tgggtacac ggagctccc gctgaccgg catacgtgtt cactttggtg gtggcgtgt tcttcgccc ctttgccgtc atgctgtgc cctacatgtg cactctcaac acggtccgca agaacgcgt gcgctgcac aaccagtgg acgacttggc cctgcggcag ctcaccagg cgggctcgg gcgctgcag cggcagcaac aggtcagcgt ggacttgagc ttcaagacca aggcctcac caccatcctg atcctcttg tgggtctctc cctcgtcgtg ctgcccact ccgtctacag cctcctgtct gtgttagcc agcgttcta ctgcggttcc tcttctacg ccaccagcac ctgcgtcctg tggttcagtt acctcaagtc cgtcttcaac cccatcgtct actgctggag aatcaaaaaa ttccgcgagg cctgcataga gttcgtgcc cagaccttc aaatcctcc caagtgcct gagcgatcc gaaggagaat ccagccaagc acagtatacg tgtgcaatga aaacagtcct gcggttag MACNSTSLEA YTYLLNTSN ASDSGSTQLP APLRLSLAIIV MLLMTVVGFL GNTVVCIIIV P QRPAMRSAIN LLLATLAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCRLS ATLYWFFVLE GVAILLIISV DRFLIIVQR DKLNPRAKV IIAVSWLSE CIAGSLTGW TLVEVPARAP QCVLGYTELP ADRAVYVTLV VAVFFAPFGV MLCAYMCILN TVRKNVAVRH NQSDSLDLRQ LTRAGLRLRQ RQQQSVDSL FKTKAFTTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVVVCNENQS AV	Homo sapiens
394	17250	G Protein- Coupled Receptor GPR45	NP_009158.1	ggctcttata gctgctattg aacacggcag agcctgttgg tgacctgcac acaggagccc A tccagtcagt actgattgaa ttactcaagg ctgcctctct gcaaatgtga gcactacagg acgtcgggac tgggcatttc ctccaacat ggccgccact gcctctccg agccactcgc cactgaggat gccgattctg agaatagcag ctctattac tatgactacc tggatgaagt ggccttcagt ctctgcagga aggatgcagt ggtgtccttt ggcaagtct tcctcccagt ctctatagc ctgattttt tgttggcct cagcgggaac ctctctctt tcatggctct gtccggttac gtgcctcgca ggccgaggtg tgagatctat ctgctgaatc tggccatctc caacctctg tttctgtga cactgccct ctggggcatc tccgtggcct ggcatgggt cttcgggagt ttcttgtga agatggtgag cactcttat actattaact ttacagtg catcttttc attagctgca tgagcctgga caagtacctg gagatcgttc atgctcagcc ctaccacagg ctgaggacc ggcccaagag cctgctcctt gctaccatag tatgggctgt gtccctggcc gtctccatcc ctgatattgt ctttgtacag acacatgaaa atcccaagg tgtgtggaac tgccacgcag atttcggcg gcattgggacc atttggagc tcttctcctc	Homo sapiens	
395	17345	G Protein- Coupled Receptor D6	NM_001296			Homo sapiens

285/448

396	17345	G Protein- Coupled Receptor D6	NP_001287.2	MAATASPOPL LSGNLLLLMV STLYTINFYS VFQTHENPK RPAGQGRALK AFLHCCFSPI GMNDLGERQS	ATEDADSENS LLRVVPRRRM GIFFISCMSL GVNCHADFG IAAALVVAFF LYAFSSHRFR ENYPNKEDVG	VEIYLLNLAI DKYLEIVHAQ GHGTWKLFL VLWFPYNLTL QYLKAFLLAV NKSA	VAFMLCRKDA SNLLFLVTLF PYHRLRTRAK REQQNLLGFL FLHTLLDLQV LGMHLAPGTA	VVSFGKVFLP FWGISVAWHW SLLLATIVWA LPLLAMIFFY FGNCEVSQHL QASLSSCSES	VFYSLIFVLG VFGSFLCKMV VSLAVSIPDM SRIGCVLVRL DYALQVTESI SILTAQEEMT	Homo sapiens
397	17535	Gaba (b) Receptor 1	NM_001470	cgtcccccgc gggaagcgag agggacggga ggcctgggac ctgtgtgctgt cccaacgcca taccggggcc attgagtagt gccaacgggt tcttatttga gacggagccc agcatctgta ccacactcag caaggggggc agggacatcc ggccaagcca atgctgtggt attgtgtctt ttcttccgaa aagtgggggt ctggacgacc ttcttctcag gtgggacttt ctctttggga	tccctgtggct agagagcggtg ggtagagaaa cttgaggccc tactgtgccc cctcagaagg tgactcggga tgtgccgggg cctggacaga ccctggaaaa gggtggattt gtcaggggcca aacggcgccg aggcctgcca tgccggacta ccaagtacct gcagctctgt cctatggctc cgcacccatc ggaagaagat tgagggaacg atccagctgt tctatgagac agaagtacgt	gcccgcgcc agacctgtg ggtggaggag gggagagccc actcttctc ttgccagatc ccaggtgaag ggagcgcgag tatggacaca tgggaaggtt ccggtgtgac gtggagcacc agtgtacatc gcccgcggtg gagatggcgc tgagctcaag atagtacctg ctccacgctg cagctcacca agccacatc tgctaccatc agtgaaggag gcccgtaaaa tgaagcccgg ctgggttcctc atgggttggt	gagagaagaa agcctggatt ggagcgggga gcccgcgcgc gcccgcgcgc cctgggaagg gctatcaact gtggtggggc ccaggtccc gtgtccgaat gtggggacct atctgtggg acctgccagg tcccattgag tggaggacgt acgacagcaa acctatcaa ctctacaacg gtggctgagg gcccgtgtcaa accggcaggc ccgcgtgaa cagcagacca ctgtgaccca gatcatcctt ctgtctggat acggcaggcg tttccccact ccgcgtgaa actctttgaa cacttcgact ccgccagagt ccgaatcatc caaggagcgt ttggttcaag	tcttactc cttataaaat tcacattgtt agcatctaga ccccatctt ctgcctttt ctgcccgtgt ctgagagcag cttgagagaga tgagtgacca aatattgggt c	VFYSLIFVLG VFGSFLCKMV VSLAVSIPDM SRIGCVLVRL DYALQVTESI SILTAQEEMT	Homo sapiens

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398	17535	Gaba (b) Receptor 1	NP_001461.1	<p>catgtgagt catgtctttc ctattgcac acgtccatgt ttatccatgt actttccctg tgtaccctcc atgtaccttg tgtactttct tcccttaaat catggtattc ttctgacaga gccatatgta ccttaccctg cacattgta tgcacttttc cccaattcat gtttggtggg gccatccaca cctctcctt gtcacagaat ctccatttct gctcagattc ccccatctc cattgcattc atgtactacc ctacgtctac actcacaatc atcttctccc aagactgctc cctttgtgtt tgtgtttttt tgagggaat taagtaaaaa taagtggggg caggtttgga gagtgcttc cagtggatag ttgatgagaa tcttgaccac aggaaggcac ccttgactgt tggtatagac agatggacct atgggggtgg agtggtgtgc cctttcacac tgtgtgtctt ctggggaag gatctcccg aatctcaata aaccagtga cagtgtgact cggcaaaaa aaaa</p>	Homo sapiens
399	17666	Glucagon- Like Peptide 1 Receptor	NM_002062	<p>gaaattccggg ttgtgcatc cactctgaa cgcctcgtgt gtggcctgtc ggaatgacat A cgccctcatc agtctccga cgcgttccc aggtggcagc gatggcccag tccctgaactc cccgccatgg ccggcgcccc ccggcgcgtg cgccttgccg tctgtctgct cgggatgggtg ggcaggccg gcccccgc ccagggtgcc actgtgtccc tctggagagc ggtgcagaaa tggcagaaat accagacca gtgccagcc tccctgactg aggatccacc tccgtccaca gacttgttct gcaaccggac ctctgatgaa tacgctgtgt ggcagatgg ggagccaggc tcgttcgtga atgtcagctg cccctggtag ctgccctggg ccagcagtgt gccgcaggc cacgtgtacc ggtctgcac agctgaagg ccttggtgc agaaggacaa ctccagcctg ccctggaggg acttgtcga gtgcgaggag tccaaagcag ggagagagaag ctccccggag gagcagctcc tgttctcta catcatctac accgtgggt acgcactctc ctctctgtct ctggttatcg cctctgcgat cctcctcggc ttcagacacc tgcactgcac caggaactac atccacctga acctgtttgc atcttcatc ctgcgagcat tgcctgtctt catcaaggac gcagccctga agtggatgta tagcacagcc gccagcagc accagtggga tgggtctctc tctacctgg actctctgag ctgccgctg gtgtttctgc tcatgcagta ctgtgtggcg</p>	Homo sapiens

400	17666	Glucagon-Like Receptor 1	NP_002053.1	MAGAPGRLRL ALLLLGMVGR AGPRPQATV	SLWETVQKWR EYRQCQRSL TEDPPPATDL	P	Homo sapiens
				FCNRTFDEYA CWPDEPGSF VNVSCPWYLF	WASSVPQGHV YRFCTAEGLM LQKDNSSLPW		
				RDLSECEESK RGRSSPEEQ LLFLYIIYTV	GYALSFSALV IASAILLGER HLHCTRNYIH		
				LNLFASFILR ALSVFINDAA LKMYSTAAQ	QHQWDGLLSY LDSLSCLRVF LLMQYCVAAAN		
				YVWLLVEGVY LYTLAFLSVL SEQWIFRLYV	SIGWGVPLLF VVPWGIYKYL YEDEGCWTRN		
				SNMNYWLIIR LPILFAIGNV FLIFVRVICI	VVSKLKANLM CKTDIKCRLA KSTLTILPLL		
				GTHEVIFAFV MDEHARGTIR FIKLFTELSF	TSFQGLMVAI LYCFVNNEVQ LEFRKSWERW		
				RIEHLHIQRD SSMKPLKCPT SSLSSGATAG	SSMYTATCQA SCS		
401	18471	G Protein-Coupled Receptor LOC51210	NM_016372	gccttgacac tggagatgctt tagctgaggg ggtggctttg	ttagactatt tgcaggctgt	A	Homo sapiens
				gagatagagc ctgagatggg gactggggc cctggctggg	ggattgggtc gtgacctgtg		
				tggagcccca cactgagctg cagtgggtgg gtaggggtgt	ttacagggtt gctctgtgca		
				gcccctctga ttttccctg gtagtcccaag gtagtggctg	tggtggcaggc gatggacacc		
				cacacagctc actggggcggc tctcactccc caatgggagc	acagcgctac ccccacccct ggacacaaac		
				ctggaggagg tgacttgggc cctgctgctg cctctacgaag	acattggcac ctccagggtc		
				atcagtgctc ctcactgctg gctcatcccc aatgtgctct	tcctcatctt cctgctctgg		
				cggctactgg acctcttgtc gaagatccgc atcacctcca	gccccatctt taccactctc		
				aagcttccat ctgctcgggc tggtctgggt ggcatgtccc	ggcccggtgt atccatgacg		
				tacatcctgg tgtttgtggt ggcgtgggtg ggcattggcc	tggtggagat caccgcttc		
				gtgagcacct cgaacgctgc aactgttgtc gataagatcc	tggtggagat caccgcttc		
				ttcctgctgg ccatacagct gactgtgac atcctgggccc	tggtcttggg cactctggag		
				agtaagtcca gcatcaagcg ggtgctggcc atcaaccacag	tgctgtccct ggctactct		
				gtcaccagg ggaccttga gatcctgtac cctgatgccc	atctctcagc tgaggacttt		
				aatatctatg gccatggggg ccgccagttc tggctgggtca	gctcctgctt ctctctcctg		
				gtctactctc tgggtgtcat ccttcccaag acccgctga	aggagcgcat ctccctgcct		
				tctcgaggga gcttctacgt gtatgcgggc atctgggac	tgctcaacct actgcagggg		
				ctggggagtg tgcctgtgtg cttcgacatc atcgaggggc	tctgctgtgt agatgccaca		
				acctctctgt acttcagctt cttcgctccg ctcactacg	tggtcttctc ccggggcttc		
				ttcgggctcg agcccaagat cctctctcc tacaatgcc	aagtggacga gacagaggag		

402	18471	G Protein- Coupled Receptor LOC51210	NP_057456.1	MDTLEEVTTWA NGSTALPPPL LLWKLPSSARA KIRITSPPIF TRFFLLAIEL SVIILGLAFG EDFNIIYGHGG RQFWLVSSCF LQGLGSVLLC FDIIEGLCCV TEEPDVHLFQ PYAVARREGL NSTDSERWKA INA	caaaaaaaaa aaaaaaaaaa ccagatgtac acctacccca ggggctgtg gggcctcagc gtggcctacc tggatgacat gacagcagc gctggaaggc agggcagaga ggaggccagc cgttctgtgg gcatagcccc tccttggggc tcccaatccc ccacactgt ctccatactgc ggcaaggttg gctgagggca tctcccaatg cctccatccc gtggatggac tgaagtgtgt caaaaaaaaa aaaaaaaaaa ggcctacgct gtggcccgcc tgccagctac tgccagcagc cgcttccatg ccctgccaca catcaatgcc tgagggcagc agggccagag tcccacagag tgtgtggccc tgttccccc ctttgccatc tctgtctca tcagtacat gggccaggct ccctccttct ctgcacccct atccccatgg tgccttggcc gatctatttt ttaataaaaa tttg	SRVRYWDL LLIPNVLF LFIP SMTVSTSNAA TVADKILWEI AYSVTQGTLE ILYPDAHLA SLPSRRSFYV YAGILALLNL RGFFGSEPKI LFSYKQCQVDE AGGVAYLDDI ASMPCHTGTGI	Homo sapiens
403	19072	G Protein- Coupled Receptor Ls19072	LG100650	agfgatgagc ggcggctgccc ctgctggcca atgcctgggg ttggagtcc tgcgtgtgac gccaactact cgtgtgtgca ctctgcaagg tcttcgtgtc acctccctct cctaccacgc tgtgaagtcc tggggttctt tgcccatgcy cacacagag ggaggggctg ctgtaagctg agccaataca gaatgcttgg aggaacaagg ccctgccaca gcttgggtgg tgcggatccc gccagatccc tctgttccac gtgcacacag tcatgggtat ggctggcacg acaccagcga atcggcctgg gctttggcgt tgtatctgca cagccatcgc gaccgccgcy ccttcaccgt tcctccatcg atggctcgga accatagtct tcatctacga gggtagaggg gctgtctct gtgagtctct cagacccaat	tgccagtgca gtcgtggtg catctcagc gttggcgcca actcgcggcc accacatgc gctgcggcgg cagcgcccc caccttctac acctcacc catgtggatg gctgtcctgc ggggttctaa gcaggcgtga tgccacaccc tgcggcatgc ctgggggcat acacgtagct aagagggacg tctgacaatg ctggctgtgc catgactatg ctacaggtcc ccagggcct cctgcctcat gccaggctga ctggatgggt tcttccatcc gcgttcttac acctcgtgct ctgcttccctg ctgctgggtg cctcttccag acgctggccc gcccaccatc gtcgtggagg gcccgcctaa acctctctgc ctgcctcatg ggttccctg gggacagccc tggggtgct cctttgagat gggcttgatc	tggtatgtgg gggcctctcc agcagaagaa gtggaagccc taaatgtggc cgtgcccatc acttcagatg gaatgaggtt tgcccacctg ttctctgtc ctgtcacta cctgtcacta aaacaaagac atatctggtg tgggaggcca ggcaggctca ttgcatgggt agacacaagc ttcacagtat ctctatgca atacttggg ggtgtgggtt ggggaggccc tgtgggtgac gcaatgccaa gaagcaggcg tgctggccct gcctgccgtt gctggctcat cgtggctgag gcggcagcgt ggcctatggg tgcaggtggg gcgccaggcc acgcgcaggg caagcggcgc agaccacggg cctcgtgacc tgctgtgggg tgacggcgctc catactccag gcatacaggtg atcgtcccca ttttccagat	A Homo sapiens

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404	19072	G Protein- Coupled Receptor	ENSP0000016 4265	SDERLPGSA VGNLVCGLS ATYSVVQLRR QRPDFWNEG NAKQAVHTV MGIWVMSFIL	LLANAWGILS ICKVFVSTFY SALPAVGWHD	VGAKQKKWKP TSLSYHRMM TSERFYTHG	LEFLLCTIAA VCWPNYRLS RFIVAELGLG	THMLNVAVPI P Homo sapiens
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Ls19072

405 19501 G Protein-
Coupled
Receptor
KIAA0758

Homo
sapiens

GSVAMGVICT AIALFQTLAV QVGRQADRRRA FTVPTIVVED AQGKRRSSID GSEPAKTSLQ
TTGLVTTTIVF IYDCIMGFVPV LVVSFSSLRA DASAPWMAIC VLWCSVAQAL LLPVFLWACD
RYRADLKAVR EKCMAIMAND EESDDG
gtgcaagaag aaaaatagatg ttatgcccac ccaaatattg gcaaatgaag aaatgaaggt A
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406	19501	G Protein- Coupled Receptor KIAA0758	BAA34478.1	<p> tgaaacaaagc aggtccactc agaaagccat tgccttctgt cttgggtatg gctgccact tgccatctcg gtcacacgc tggagccac ccagcccg gaaagtctata cgaggagaa tgcctgttg ctaactggg agcacacaa ggcctgctg gctttcgcca tccagcact gatcattgtg gtgtgaaca taaccatcac tattgtgtc atcaccaaga tcctgagcc ttccattgga gacaagccat gcaagcagga gaagagcagc ctgtttcaga tcagcaagag cattgggtc ctcacaccac tcttggcct cacttgggt ttgtgtctca ccactgtgtt ccagggacc aacctgtgt tccatcatc atttggcct ctcaatgtct ccagggatt attcatttta ctccttggat gcctctgga tctgaagta caggaagctt tgctgaataa gtttcattg tcgagatgt cttcacagca ctcaagtca acatccctgg gtccatccac acctgtgtt tctatgagt ctccaatc accagatc aaggagatt acaatttgt ttgtataaac aggaacgtat aatgtttcca cccagaagc accagctca tccctggaaa actcatccag tgcttcttcg ttgtcaact aagaacagga taatccaacc tacgtgacct cccggggaca gtggtgtgc ttttaaaag agatgcttc aaagcaatgg ggaacgtgtt ctgggggcag gtttcggga gcagatgcca aaagacttt ttcatagaga agaggctttc tttgtaaag acagaataaa aataattgtt atgttctgt ttgttccct cccctcccc ttgtgtgata ccacatgtgt atagtattta agtgaactc agccctcaa gcccactt ctctgtctat attgtaatat agaattcga agagacatt tcaatttta cacattgggc acaagataa gcttggatta agtagtaag taaaaggcta cctaggaat actcagtga attctaagaa ggaaggagc aggaaggaa ggaagagc gaggaaagc gggagaaag gaaaagaaag aaaaagaaa agatgaaaat aggaacaaat aaagacaaac aacattaagg gccatattgt aagatttcca tgttaatgat ctaataaat cactcagtc aacattgaga atttttttt taatggctca aaaaagaaa ctgaaagcaa gtcattggga atgaatactt tgggcagtat ctctctgat tctcttagc taaggaggc aaaaaagc tgaataata gggaggaat tcttcatca gaacgactc aagtggata caataattat aagaatgaa tggagga tatgatctc ctgagactaa ctttgtatgt taagtttga actaagtga tgatctgca gaggaagtat tataaagata tgtcattaga tccaagtgt gattaaatt ttatagtta tcagaaaagc cttatatatt agttgttcc acattttga agcaaaaaat atatatgga tatacccttc aattgcaaaa ttgatagtgt tgcactgaag acagaccctg tcatatatt aatggcttca agcaggtact tctctgtgca ttatagaata gattttaata atcttatagc attgtatatt attattgctg ttgtcactgt tattattatt gtggactctg gcccttggtg tgttgcatag ctcctatgt attctctgt tccatcttta agttccaga ccaatataca ttaagagttt tgcattgtct aaattgtgtt tattccaacc acgtggaaa ctcctggaaa gaaattttac attcgggtgt tctgtgtctc taatgacact tgacctgtt gaacaaatgg cagagcctt ccaaggatt tgattgttg tgaattatct gcattgtgc tttttttg tgttatattc attaaaaat ataaatatt atg </p>	<p> CCSQGNVWS KVEWKQEGKI NIPGTPETDI P ANIKVTFSV ANLTITDPI RYLDGAESVL TVKTSTREWN SCGSHHIKC CIEEDGDYKV CCHFTNAANN SVWSPSMKLN GGTITYKCVG SQWEEKRND </p>	Homo sapiens
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407	21632	G Protein- Coupled Receptor Ls21632	AB040964	ISAPINSLQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSSPGSL GAINILDLL STVPTQVNSE NMTHVLSTVN VILGKPVINT WKVLQQWTN QSSQLLSHVE RFSQALQSGD SPPLSFSQTN VQMSSTVIKS SHPETYOQRF VEPYFDLWGN VWDKSYLEN LQSDSSIVTM AFPTLQAILA QDIQENFAE SLVMTTVSH NTTMPFRISM TPKNNSPSGG ETKCVFNNFR LANNTGGWDS SGCYVEEGDG DNVTCICDHL TFSFILMSPD SPDPSSLLGI LLDIISXYGV GESILSLAAC LVVEAVWKS VTKNRTSYMR HTCIVNIAAS LLVANTWFIV VAAIQDNRYI LCKTACVAAT FFHFFYLVS FFWMLTLGLM LFYRLVFILH ETSRSTQKAI AFCLGYGCP AISVITLGAT QPREVYTRKN VCWLNWEDTK ALLAFAPAL IIVVNITIT IIVITKILRP SIGDKPKQKE KSLFQISKS IGVLTPLLGL TWGFGLTTFV PGTNLVFIHII FAILNVFQGL FILLFGCLWD LKQBEALLNK FSLSRWSSQH SKSTSLGSST PVFMSSSIPIS RRFNNLFGKT GTYNVSTPEA TSSSLENSSS ASSLLN	Homo sapiens
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409 22315 G Protein-
Coupled
Receptor
GPR92/GPR93 NM_020400 Homo sapiens

410	22315	G Protein- Coupled Receptor GPR92/GPR93	NP_065133.1	<p>gtgatggtgc tgcggccg cgcgaactgc gtctggacc cgtggtgta ctactttagc</p> <p>gccgagggt tccgaacac cctgcgggc ctgggcaactc cgcacgggc caggacctcg</p> <p>gccaccaacg ggacggggc ggcgctcgc caatccgaaa ggtccgccgt caccaccgac</p> <p>gccaccaggc cggatgccg cagtcagggg ctgctccgac cctccgactc ccactctctg</p> <p>tcttcctca cacagtgc ccaggattcc gccctctga</p> <p>MCNLAASDLL FTLSEFVRLS YRALHWPEP DLLCQTGTAI FQNMVGSCL FLMLINVDY</p> <p>AAIVHPLRL HLRPRVARL LCLGVWALIL VFAVPAARVH RPSRCRYRDL EVRLCFESFS</p> <p>DELWKGRLLP LVLAELGFL LLPLAAVVS SGRVFWTLAR PDATQSQRRR KTVRLLLANL</p> <p>VIFLLCFVPY NSTLAVYGLL RSKLVAAVSV ARDRVGVLM VMVLLAGANC VLDPLVYFYS</p> <p>AEGFRNTLRG LGTPHRARTS ATNGTRAALA QRSERAVTID ATRPDAASQG LLRPSDSHSL</p> <p>SSFTQCPQDS AL</p> <p>ALALWVFLRA LRHVSVVSVY P</p> <p>Homo sapiens</p>
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 TDDKICSDP AQMENIRCYL PDAYKIMSQR CNRTQCAVV AGPDVFPDPC PGTYKYLEVQ

299/448

413	25359	G Protein- Coupled Receptor GPR34	NM_005330	<p>YECVPYKVEQ KVELCPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRDT TLTEYSSKDD FIAGRPTTTY KLPHRVDGTG FVYDGALEFF NKERTRNIVK FDLRTRIKSG EAIIANANYH DTSPYRWGGK SDIDLAVDEN GLWVIYATEQ NNGKIVISQL NPYTLRIEGT WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVFPFNS YQYIAADVYN PRDNLLYVWN NYHVVKYSLD PGLDSTRSGQ AHGQVSYIS PPIHLDSELE RPSVKDISST GFLMGSTTT STTLRTTILS FGRSTTPSVP GRNRSTSTP SPAVEVLDDM TTHLPSASSQ IPALEESCEA VEAREIMWFK TRQGQIAKQP CPAGTIGVST YLCLAPDGIW DPQGPDLNCS SSPWNHITQ KLKSGETAAN IARELAEQTR NHINAGDITY SVRAMDQLVG LLDVQLRNL PGGKDSARS LNKLQKRERS CRAYVQAMVE TVNNLLQPQA LNAWRDLTTS DQLRAATMLL HTVEESAFVL ADNLLKTDIV RENTDNIKLE VARLSTEGNL EDLKFPENMG HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSHVIVNSP VITAAINKEF SNKVYLADPV VFTVKHIKQS EENFNPCSF WSYSKRTMTG YWSTQGCRLL TTNKTHTTCS CNHLTNFAVL MAHVEVRKHS AVHDLLEDVI TWVGILLSLV CLLICIFTFC FFRGLQSDRN TIHKNLCISL FVAELLEFLIG INRTDQPIAC AVEPAALLHFF FLAAFTWMFL EGVQLYIMLV EVFESEHSRR KYFYLVGYGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF IWSFIGPATL IIMLNVIPLG IALYKMFHHT AILKPESGCL DNINYEDNRP FIKSWVIGAI ALLCLLGLTW AFGLMYINES TVIMAYLEFI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMWND TVRKQSESSF ITGDINSSAS LNREPYRETS MGVKLNIAIYQ IGASEQCOGY KCHGYSTTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtcg gacagctggcc ttactcctcc A cacagaatgc gctttataac caatcatagc gaccaacccg cacaaaaactt ctacagcaaca ccaaatgta ctactgtcc catggatgaa aaattgctat ctactgtgtt aaccacatcc tactctgtta ttctcatcgt gggactggtt gggaaacataa tcgccctcta tgtatttctg ggtattcacc gtaaaagaaa ttccattcaa attatttctac ttaacgtagc cattgcagac ctctactca tctctgcct cctttccga ataattgata atattaacca aaacaagtgg acactagggtg tgattctgtg caaggttctg ggaacactgt ttatatgaa catgtacatt agcattattt tgcttggtt catcagtttg gatcgctata taaaaattaa tcggtctata cagcaacgga aggaataaac aaccaaacaa agtattttag tctgtttagt agtatggatg cttgctcttg gtggattcct aactatgatt attttaaac ttaagaaagg agggcataat tccacaatgt gttccatta cagagataag cataacgcaa aaggagaagc catttttaac ttcatctctg tggtaatgtt ctggctaatt ttctactaa taatccttcc atataatga attgggaaga atctattgag gatttctaaa aggaggtcaa aatttcttaa ttctggtaaa tatgccacta cagctcgtaa ctctttatt gtaatttca ttttactat atgttttgtt ccctatcatg ccttcgatt catctacatt tcttcacagc taaatgtatc atcttgctac tggaaagaaa ttgtcacaa aaccaatgag atcatgctg ttctctcatc ttcaatag tgcttagatc cagtcagtga ttctctgatg tccagtaaca tcgcaaaaat aatgtgcca ctctctttta gacgatttca aggtgaacca agtaggagtg aaacacattc agaattttaa ccaggatact cctgcgatga tacatctgtg gcagtgaaaa tacagtctag ttctaaaaagt acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSWPYSS HRMRFITNHS DQPPQNFSA PNVVTCPMDE KLLSTVLTTS P YSVIFIVGLV GNIILYVFL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

Receptor GPR34	30698	415	G Protein- Coupled Receptor Ls30698	AX068267	<p>TLGVILCKVV GTLFYNNMYI SIILGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIVMM</p> <p>LALGGFLTMI ILTLKKGHN STMCIFYRDK HNAKGEAIFN FILVWFILI FLILISYIK</p> <p>IGKNLLRISK RRSKFPNSGK YATTARNSFI VLIIFTICFV PYHAFRIYI SSQINVSICY</p> <p>WKEIVHKTNE IMLVLSSENS CLDPVMYFLM SSNIRKIMCQ LLFRRFQGEF SRSESTSEFK</p> <p>PGYSLHDTSV AVKIQSSSKS T</p> <p>gtttccagat cgggtttctcg caacaggcag tcagttctca ctggggccct tggactccca A</p> <p>tttcaaaaat ggagagaca gatacagcc actgaccagg gaccgtggga ggtgccacgt</p> <p>gatggtgagg catcatgcta gggagctgag ctctgacctt cctgctgggt gattctccac</p> <p>ctctgggctg ctatgcttac ttctgggatg ccgtgaagat cctcatgtat gaaaatgaag</p> <p>tcccaggcaa ccatgatttg ctgcttagtg ttctttctgt ccacagaatg tcccactat</p> <p>agatccaaaga ttcaacctaaa aagctatagt gaagtggcca accacatcct cgacacagca</p> <p>gccatttcaa actgggcttt cattcccaac aaaaatgcca gctcggattt gttgcagtca</p> <p>gtgaatttgt ttgccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa</p> <p>ctcttcattc agacaaaagg gttccacatc aaccataata cctcagagaa aagcctcaat</p> <p>ttctccatga gcatgaacaa taccacagaa gatattcttag gaatggtaca gattcccaag</p> <p>caagagctaa ggaagctgtg gccaaatgca tcccaagcca ttacatagc ttcccaacc</p> <p>ttgggggcta tccctgagaga agcccacttg caaatgtga gtcttccag acaggtaaat</p> <p>ggtctggtgc tateagtgtt ttaccagaa aggttgcaag aaatcatact caccttcgaa</p> <p>aagatcaata aaaccgcgcaa tgcagagcc cagtgtgttg gctggcactc caagaaaagg</p> <p>agatgggatg agaaagcgtg ccaaatgatg ttggatatca ggaacgaagt gaaatgccgc</p> <p>tgtaactaca ccagtgtgtg gatgtctttt tccattctca gtctctcaa atcgatgacc</p> <p>gacaaaagtc tggactacat cacctgcatt gggctcagcg tctcaatcct aagcttgggt</p> <p>ctttgcctga tcaatgaagc cacagtgttg tcccgggtgg ttgtgacgga gatacatac</p> <p>atgctgcacg tgtgcactgt gaatatagca gtgtcccttc tgactgcca tggtgtggtt</p> <p>atcataggct ctcactttaa cattaaaggc caggactaca acatgtgtgt tgcagtgaca</p> <p>tttttcagcc actttttcta cctctctctg tttttctgga tgctctcaa agcattgctc</p> <p>atcatttatg gaatatgtgt cattttccgt aggatgatga agtcccgaat gatggtcatt</p> <p>ggctttgcca ttggctatgg gtgcccattg atcattgtgt tcaactacagt tgctatcaca</p> <p>gagccagaga acggctacat gagacctgag gcctgttggc ttaactggga caataccaaa</p> <p>gcccttttag catttgccat cccggcgctc tctattgttg ctgtaaatct gattgtggtt</p> <p>ttgggtgttg ctgtcaacac tcagaggccc tctattggca gtccaagtc tcaggatgtg</p> <p>gtcataatta tgaggatcag caaaaatgtt gccactctca ctcactgct gggactgacc</p> <p>tggggttttg gaatagccac tctcatagaa ggcacttctc tgacgttcca tataattttt</p> <p>gccttgctca atgctttcca gggttttttc atctgtctgt ttggaacctc tatggatcac</p> <p>aagataagag atgctttgag gatgaggatg tcttactga aggggaaatc gagggcagct</p> <p>gagaatgcat cactaggccc accaaatgga tctaaattaa tgaatcgtca aggatgaaat</p> <p>gctgccccat ttctcatgga tgtcctgaga ccaagagggg agatccagga gaaagagcc</p> <p>atggaaaagca ggctggagtg aggaggaatg gtcattgctt cttggagac ttctcttct</p> <p>tgtcaggagt gactcccaag ctcttggctg gccgaagaaa aactgggat aacatttgc</p> <p>gactgggctt taaggagcat gatttatgga cccctaaccc taccgtgccc ctgcaagagg</p> <p>ctgggttctt ggtcaatctt tactagatta agagtcaatc tgcaagccat ttatgtgtct</p>	Homo sapiens
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416 30698 G Protein-
Coupled
Receptor
Ls30698 CAC27252.1 Homo sapiens

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HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR
QG

417 30875 G Protein-
Coupled
Receptor
GPR87/GPR95 NM_023915 Homo sapiens

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418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVVKPFSDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPG VKWHTAVTV NSCLFVAVL ILIGCYIAIS RYIHKSSRQF ISQSSRRKH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIYFFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcatgct ctgccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggagagag ggtggcgaag gggcgctcat catcacccag ttcatacgcca tcaattgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tctgtctgtc cgtgttgggtg ctgccttttg tggtaacgag cctcatcgc agggaatgga tcttgggtgt agtgtgggtc aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgcttg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc actgtgtctac atctggcttc actcgtctcat cggctgacctg ccacccctgt ttggtgtgtc atccgtggag tttagcaggt tcaaatggat gtgtgtggct gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc tttctgttca tgcgtgtgtg ctatggcttc atcttcccg tggccagggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggtg ctcagaggac cgggaggaag aactccagca cctccacctc ctcttcaggc agcaggagga atgcctttca ggtgtgtgtc tactcgcca accagtgcac agcctcctac accatctctgg tggctcctcg tgccttcactg gtcacctggg gccctacat ggttgtctac cctctctgag cctctggggg gaaaagctcc gtctccccga gctggagac ttgggccaca tggctgtcct ttgccagcgc tctctgccac ccctgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt ggggaaccggg attatcggga accatttgtg caacgacaga ggaactccag gctcttcagc atttccaaac ggateacaga cctgggacctg tccccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtctgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcagggt caagagctgg cggagggggca tttccccagg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVVKPFSDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPG VKWHTAVTV NSCLFVAVL ILIGCYIAIS RYIHKSSRQF ISQSSRRKH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIYFFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcatgct ctgccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggagagag ggtggcgaag gggcgctcat catcacccag ttcatacgcca tcaattgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tctgtctgtc cgtgttgggtg ctgccttttg tggtaacgag cctcatcgc agggaatgga tcttgggtgt agtgtgggtc aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgcttg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc actgtgtctac atctggcttc actcgtctcat cggctgacctg ccacccctgt ttggtgtgtc atccgtggag tttagcaggt tcaaatggat gtgtgtggct gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc tttctgttca tgcgtgtgtg ctatggcttc atcttcccg tggccagggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggtg ctcagaggac cgggaggaag aactccagca cctccacctc ctcttcaggc agcaggagga atgcctttca ggtgtgtgtc tactcgcca accagtgcac agcctcctac accatctctgg tggctcctcg tgccttcactg gtcacctggg gccctacat ggttgtctac cctctctgag cctctggggg gaaaagctcc gtctccccga gctggagac ttgggccaca tggctgtcct ttgccagcgc tctctgccac ccctgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt ggggaaccggg attatcggga accatttgtg caacgacaga ggaactccag gctcttcagc atttccaaac ggateacaga cctgggacctg tccccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtctgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcagggt caagagctgg cggagggggca tttccccagg tg	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVVKPFSDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPG VKWHTAVTV NSCLFVAVL ILIGCYIAIS RYIHKSSRQF ISQSSRRKH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIYFFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcatgct ctgccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggagagag ggtggcgaag gggcgctcat catcacccag ttcatacgcca tcaattgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tctgtctgtc cgtgttgggtg ctgccttttg tggtaacgag cctcatcgc agggaatgga tcttgggtgt agtgtgggtc aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgcttg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc actgtgtctac atctggcttc actcgtctcat cggctgacctg ccacccctgt ttggtgtgtc atccgtggag tttagcaggt tcaaatggat gtgtgtggct gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc tttctgttca tgcgtgtgtg ctatggcttc atcttcccg tggccagggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggtg ctcagaggac cgggaggaag aactccagca cctccacctc ctcttcaggc agcaggagga atgcctttca ggtgtgtgtc tactcgcca accagtgcac agcctcctac accatctctgg tggctcctcg tgccttcactg gtcacctggg gccctacat ggttgtctac cctctctgag cctctggggg gaaaagctcc gtctccccga gctggagac ttgggccaca tggctgtcct ttgccagcgc tctctgccac ccctgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt ggggaaccggg attatcggga accatttgtg caacgacaga ggaactccag gctcttcagc atttccaaac ggateacaga cctgggacctg tccccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtctgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcagggt caagagctgg cggagggggca tttccccagg tg	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVVKPFSDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPG VKWHTAVTV NSCLFVAVL ILIGCYIAIS RYIHKSSRQF ISQSSRRKH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIYFFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcatgct ctgccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggagagag ggtggcgaag gggcgctcat catcacccag ttcatacgcca tcaattgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tctgtctgtc cgtgttgggtg ctgccttttg tggtaacgag cctcatcgc agggaatgga tcttgggtgt agtgtgggtc aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgcttg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc actgtgtctac atctggcttc actcgtctcat cggctgacctg ccacccctgt ttggtgtgtc atccgtggag tttagcaggt tcaaatggat gtgtgtggct gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc tttctgttca tgcgtgtgtg ctatggcttc atcttcccg tggccagggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggtg ctcagaggac cgggaggaag aactccagca cctccacctc ctcttcaggc agcaggagga atgcctttca ggtgtgtgtc tactcgcca accagtgcac agcctcctac accatctctgg tggctcctcg tgccttcactg gtcacctggg gccctacat ggttgtctac cctctctgag cctctggggg gaaaagctcc gtctccccga gctggagac ttgggccaca tggctgtcct ttgccagcgc tctctgccac ccctgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt ggggaaccggg attatcggga accatttgtg caacgacaga ggaactccag gctcttcagc atttccaaac ggateacaga cctgggacctg tccccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtctgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcagggt caagagctgg cggagggggca tttccccagg tg	Homo sapiens

Receptor
GPR49

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Homo
sapiens

P

NP_003658.1

G Protein-
Coupled
Receptor
GPR49

36534

422

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 cctccagtt ccgtgccatc accagcttat ccagtgactg agagctgcca tctttcctct
 gtggcatttg tcccatgtct ctaa
 PSNLSVFTSY LPLVLLQLAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGLSEL
 LQNNQLRHP TEALQNLRSQ LLNPPLPSLR FLEELRAGN ALTYIPKGF TGLYSLKVLV
 AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVVLHLHNN RIHSLGKKCF DGLHSLLETD
 LNNNLDEFP TAIRTLNLK ELGFHSNNIR SIPEKAFVGN PSLLTIHFYD NPIQFVGRSA
 FQHLPELRTL TLNGASQITE FPDLTGTANL ESLLTGAQI SSLPQTVCNQ LPNLQVLDLS
 YNLLEDLPF SVCQKLQKID LRHNEIYEIK VDTFQQLLSL RSLNLAWNKI AIIHNAFST
 LPSLIKLDLS SNLLSFPIT GLHGLTHLKL TGNHALQSLI SSENFPPELV IEMPYAYQCC
 AFGVCENAYK ISNQWNKGDN SSMDDLHKKD AGMFQAQDER DLEDFLLDFE EDLKALHSVQ
 CSPSPGPFKP CEHLDGWLI RIGVWTIAVL ALTICNALVTS TVFRSPLYIS PIKLLIGVIA
 AVNMLTGVSS AVLAGVDAFT FGSFARHGAW WENGVCCHVI GFSLIFASES SVFLLTLAAL
 ERGFSVKYSA KFETKAPFSS LKVIILCAL LALTMAAVPL LGSKYKASPL ICLPLPFGEF
 STMGYMVALI LNLSCFLMM TIATYTKLYC LDKGDLENIW DCSMKVHIAL LLFTNCILNC
 PVAFLSFSSL INLTFSISPEV IKFILLVVVP LPACLNPLLY ILFNPHFKED LVSLRKQTYV
 WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PFSSVPSPAY PVTESCHLSS
 VAEVFCPL

Homo
sapiens

A

NM_004736

Xenotropic
and
Polytropic
Retrovirus
Receptor
(XPR1)

37498

423

actagagatg gcggggcggc tgctctgaag agacctcggc ggccggcggag gaggagagaa
 gcgcagcgc gcgcgcgcgc ggggcccctg tggggaggag tccgagtcgc tggcgcgcgc
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424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p>ccccctccat aaggtaggct ttgctgattt ctggctggcg gatcagctga acagcctgtc agtgatactg atggacctgg aatatatgat ctgcttctac agtttggagc tcaaatggga tgaagtaag ggcctgttgc caaataattc agaagaatca ggaatttgcc acaatatatac atatggtgtg cgggccattg ttcagtgcat tcctgcttgg cttcgcttca tccagtgctt gcgcgatat cgagacacaa aaaggccctt cctctattta gttaatgctg gcaagtactc cacaactttc ttcatggttg cgtttgcagc cttttacagc atccacaaa aacgaggtca ctcggacact atggtgttct tttaacctgt gattgtcttt tatatcatca gtctcctgcta tacctcatc tgggatctca agatggactg ggtctcttc gataagaatg ctggagagaaa cactttcctc cgggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agaggatgtg attctgcgct ttgcttggac tatccaaatc tcatctact ctacaacttt gttgccctcat tctggggaca tcattgctac tgtctttgcc ccacttgagg ttttccggcg atttgtgtgg aacttcttcc gcctggagaa tgaacatctg aataactgtg gtgaattccg tgctgtgcgg gacatctctg tggccccctt ggcgcagat gatcagactc tcctagaaca gatgatggac caggatgatg gggtacgaaa ccgccagaag aatcgggtcat ggaagtacaa ccagagcata tccctgcgcc ggcctgcctt cgcttctcaa tccaaggctc gtgacactaa ggtattgata gaagacacag atgatgaagc taacacttga attttctgaa gtctagctta acatcttttg ttttctact ctacaatcct ttctcgcacc aacgcaacct ctagtacctt tccagccgaa aacaggagaa aacacataac acattttccg agctcttccg gatcggatcc tatggactcc aacaagctc actgtgttct ttttcttttc tttcgtttta attttaattt tctattttca aacaagtat ttacttcatt tgccaatcag aggatgtttt aagaacacaa acatagtatc ttatggattg ttacacatac caaggacata gatcctatc aggatgaaga acaggcattg caaggacctt ctgatgggac ggtactgaga tctcggctt cctcgtcagc cgggttttga atggttgaaa ccggacattg gtttttaaat ttttgcagc tttatgtgga gaattttttt ctttcttca taccacgcgc aaaggcactg gccgcacttg caggaaaagt gcaacttaaa gcagtacctt cattcatgaa gctacttttt aatttgatgt aacttttctt attttgggaa ggttgcctgg gtgggtggga aatatgatgt atttggtaca catagttttc tcattattta tgaacttaaa ccatacagaa tgatataact cctgtgcaat gaaggtgata acagtaaaag aaggcaggag aaaaaaaaa</p>	Homo sapiens
				<p>SAQDQAPSVE VTDEDIVKRY FAKFEKFFQ P LQSSLDQKE STGVTLRQR RKPVEHLSHE LNFTGFRKIL KKHDKILETS RGADWRVAHV PPLGAAQPAP AWTTFRVGLF IYRGGFLLIE FLFLGINTY GWRQAGVNHV LLACFFAPIS VIPTYVYPLA LYGFVFFLI FADFWLADQL NSLSVILMDL EYMICFYSIE VQICIPAWLRF IQCLRRYRDT KRAFPHLVNA FYLIWIVFYII SSCYTLIWDL KMDWGLFDKN FAWTIQISIT STTLLPHSGD IIATVEAPLE VAPLNADDQT LLEQMDQDD GVRNRQKNRS DDEANT</p>	

425	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	AX073578	agagatggca gtgagcgaga ggaggggggt cgcccgcggt cgcccgcggt agtgggggca A	Homo sapiens
				gaggctactt ctggtgctgc tgttggtggtg acatccagct gaacagcttc ggtttctaca ccaatggctc	
				gacgggggag aagcgagcgg tccgtcggtt gggcctccgg gaggcagaag agaagtcctc	
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426	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	CAC28410.1	MAVSERRGLG RGSPAEWGOR LLLVLLGGC SGRIHRLALT GEKRADIQLN SFGFTYNGSL P	Homo sapiens
				EVELSVLRIG LREAEEKSLI VGFSLSRVRS GRVRSYSTRD FQDCPLQKNS SSFLVLFLIN	
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				FTKSISLLFH SINYFFINSQ GHPIEGLAVM YYIAHLLKGA LLFITIALIG SGWAFIKYVL	
				SDREKKVFGI VIPMQVLNV AYIIIESREE VASDVYFWKE ILFLVDLIC GAILFPVWS	
				IRHLQDASGT DGKAVNLAK LKLFERYVM VICVYVFTRI IAILQVAVP FQWQWLYQLL	
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427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
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 NP_005747.1 MVFSVRQCGH VGRTEEVLLT FKIFLVIICL HVLVTSLEE DTDNSSLSP PAKLSVSEFA P Homo
 PSSNEVETTS LNDVTLISLP SNETEKTIT IVKTFNASGV KPQRNICNLS SICNDSAFFR sapiens

Receptor
GPR64

Receptor GPR64	429	45937	KIAA1624 Protein	AF376725	GEIMFOYDKE STVPQNHIT NGTLTGVLSL SELKRSELNK TIQTLSETYF IMCATAEAQS TLNCTFTIKL NNTWNACAAI AALERVKIRP MEHCCCSVRI PCPSSPEELG KLQCDLQDPI VCLADHPRGP PFSSSQSIPV VPRATVLSQV PKATSFAPRP DYSPVTHNVP SPIGEIQPLS PQPSAPIASS PAIDMPQSE TISSPMQTH VSGTTPPVKA SFSSPTVSAP ANVNTTSAPP VQTDIVNTSS ISDLENQVLQ MEKALSLGL EPNLAGEMIN QVSRLLHSP DMLAPLAQRL LKVVDDIGLQ LNFSNTTISL TSPSLALAVI RVNASSENTT TFVAQDPPANL QVSLETOAPE NSIGTITLPS SLMNNLPAHD MELASRVQFN FFETPALFQD PSLENLSLIS YVISSSVANL TVRNLTNRVT VTLKHINPSQ DELTVRCVFW DLGRNGGRGG WSDNGCSVKD RRLNETICTC SHLTSEFVLL DLSRTSVLPA QMMALTFITY IGCGLSSIFL SVTLVTYIAF EKIRRDYPSK ILIQLCAALL LNLVFLDS WIALYKMQGL CISVAVFLHY FLLVSFTWMG LEAFHMYLAL VKVENTYIRK YILKFCIVGW GVPAAVVTII LTISPDNYGL GSYGKFPNGS PDDFCWINNN AVEYITVVG YFCVIFLLNVS MFIVVLVQLC RIKKKKQLGA QRKTSIQDLR SIAGLTFLLG ITWGEFAFEAW GPNVNTFMYL FAIFNTLQGF FIFIFYCVAK ENVRKQWRRY LCCGKRLRLAE NSDWSKTATN GLKKQTVNQG VSSSNSLSQS SSNSTNSTTL LVNDCSVHA SGNGMASTER NGVSFSVQNG DVCLHDFTEG QHMFNEKEDS CNGKGRMALR RTSKRGSLHF IEQM	Homo sapiens
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Homo
sapiens

Homo
sapiens

P

AAK57695

45937 KIAA1624
Protein

430

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Homo
sapiens

A

NM_012344

50847 Neurotensin
Receptor
type 2

431

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	<p>gttaacattt tggagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gaccttcaa atatgaaact ggttgggaaa tctccatttt ttcaatatta tttcttctt tgttttcttg ctacatataa ttattaatac cctgactagg ttgtgggttg aggtttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggtacatc tagagaacat ttgccaaagg cctaagcacg gcaaggaaa ataaacacag aataataa atagagataa tctagcttaa actataaact tctcttcag aactcccaac cacattggat ctacagaaaaa tctgtcttcc aaatgactt ctacagaaa gaaataattt ttcctctgga cactagcact taagggaag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaaagt tgacacactg ttctgagagt ttccacagca tatggaccct gtttttcta ttttaatttc ttatcaacc tttaattagg caagatat attagtaacc tcattgtagc catgggaaaa ttgatgttca gtggggatca gtgaattaaa tggggtcata caagtataa aattaaaaa aaaaagact tcatgcccaa tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatgggtt agagatttcc agagtcttac attttctaga ggaggtattt aatttcttct cactcatcca gtgttgtatt taggaatttc ctggcaacag aactcatggc tttaatccca ctagtattg ctatttgtcc tggccaatt gccaatacc tgtgtcttgg aagaagtgt ttctaggttc accattatgg aagattctta ttcagaaaagt ctgcataagg cttatagcaa gttatttatt tttaaaagt ccatagggtga ttctgatagg cagtgggtt agggagccac cagttatgat gggagtgatg gaatggcagg tcttgaagat aacattggcc ttttgagtgt gactcgtagc tggaaagtga gggaaatttc aggaccatgc tttatttggg gctttgtgca gtatggaaca gggactttga gaccaggaaa gcaatctgac ttaggcattg gaatcaggca tttttgcttc tgaggggcta ttaccaaggg ttaatagggt tcatcttcaa caggatatga caacagtgtt aaccaagaaa ctcaaatcac aaatactaaa acatgtgata atatatgttg taagtttcat tttcttttcc aatcctcagg ttccttgata tggattccta taacatgctt tcatccctt ttgtaatgga tatcatattt ggaaatgcct atttaatact tgtatttgc tctggactgt aagcccatga ggcactgtt tattattgaa tgtcatctct gtcatcatt gactgctctt tgctcatcat tgaatcccc agcaaatgac ctagaacata atagtgttta tggctgacac cggttatttt tcatcaaac tgattccttc tgtcctgaac acatagccag gcaattttcc agccttcttt gagtgggta ttattaaaatt ctggccatta ctccaatgt gagtggaaat gacatgtgca atttctatac ctggctcata aaaccctccc atgtgcagcc ttcatgttg acattaaatg tgacttggga agctatgtgt tacacagagt aaatcaccag agcctggat ttctgaaaaa actgtgcaga gccaaacctc tgtcatttgc aactccact tgtatttga cgaggcagt ggataagtga aaaaataaagt actatttgtg caagaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaa</p> <p>MMVDPNGNES SATYFILIGL PGLEEAQFWL AFPLCSLYLI AVLGNLTIIY IVRTEHSLHE P PMYIFLCMLS GIDILISTSS MPKMLAIFWF NSTIIQFDAC LLQMFALHSL SGMESTVLLA MAFDRYVAIC HPLRHATVLT LPRVTKIGVA AVVRGAALMA PLPVFIKQLP FCRSNILSHS YCLHQDVNKL ACDDIRNVV YGLIVIIISAI GLDSILISFS YLLILKTVLG LTREAQAKAF GTCVSHVCAV FIFYVPFGL SMVHRESKRR DPLPVLILAN IYLLVPPVLN PIVYGVKTKE IRQILRLFH VATHASEP</p>	Homo sapiens
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435	54053	Gaba (b) Receptor 2	NM_005458	atggcttccc	cgcgagggtc	cgggcagcca	ggggcgccgc	cgccgcgcgc	accgcgcgc	A	Homo sapiens
				ggcgccctgc	tactgtact	gtctgtccg	ctgtctgtgc	ctctggcgcc	cggggcctgg		
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436	54053	Gaba (b) Receptor 2	NP_005449.1	<p>gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaaacttca ctgagagcac agatggagga aagccattt taaaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag cctctcgaa catgcaaaaga tccatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc caccctccac cacgcctacc tccatccat cggaggcgtg gacgccagct gtgtcagccc ctgcgtcagc ccaccgccca gcccccgcc cagacatgtg ccaccctcct tccgagtcac ggtctcgggc ctgtaa</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>MASPRRSGQP GRPPPPPPPP ARLLLLLLP LLLPLAPGAW GWARGAPRPP PSSPPLSIMG P IMPLTKEVAK GSIGRGLPA VELAIEQIRN ESLLRPYFLD LRLYDTECDN AKGLKAFYDA IKYGNHLMV FGVCPSTVS IIAESLQGNV LVQLSFAATT PVLADKKKYP YFFRTVPSDN AVNPAILKLL KHYQWKRVTG LTQDVQRFSE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGNDVRI ILGQFDQDMA AKVECCAYEE NMYGSKYQWI IPGWYEPSWW EQVHTEANSS RCLRKNLLAA MEGYIGVDFE PLSSKQIKTI SGKTPQQYER EYNNKRSGVG PSKFHGYAYD GIWVIAKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRILL NAMNETNFFG VTGQVVFNRG ERMGTIKFTQ FQDSREVKVG EYNNAVADTLE IINDTIRFQG SEPPKDKTII LEQLRKISLP LYSILSALTI LGMINASAFI FENIKNRNQK LKIMSSPYMN NLIILGGMIS YASIFLFGLD GSFVSEKTFE TLCTVTRWIL TVGYTTAFGA MFAKTWRVHA IEFKNVMMKKK IIKDQKLLVI VGGMLLDLC ILICQAVDP LRRTVEKYSM EPDPAGRDIS IRPLLEHCEN THMTIWLGV YAYKGLMLF GCFILWETRN VSIPALNDSK YIGMSVYNVG IMCIIGAAVS FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLRTN PDAATQNRRE QFTQNKKEK SKTSTSSTVS NQASTSRLEG LQSENHRLRM KITELDKDLE EVTMQLQDTP EKTYYIKQNH YQELNDIILN GNFTSTDGG KAILKNHLDQ NPQLQWNTTE PSRTCKDPIE DINSPEHIQR RLSLQLPLIH HAYLPSIGGV DASCVSFCVS PTASPRHRHV PPSFRVMVSG L</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>gtgaaattta aactccagtc ctgtggcgaa aatgctaatt gcactaacac agaaggaagt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gtttatcact aatgatggaa ccgtctgtat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattataaa aactttaaca aaaatcagat ccataaaaga acctgtggct ttgctacaag aagtctatag aaattctgtg acagatcttt caccacacaga tataattaca tatatagaaa tattagctga atcatcttca ttactaggtt acaagaacaa cactatctca gccaaggaca cctttcttaa ctcaactctt actgaatttg taaaaccgt gaataatttt gttcaagggt atacatttgt agtttgggac agtttatctg tgaatcatag gagaacacat cttacaaaac tcatgcacac tgttgaacaa gctactttta ggatattcca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtct tcaaaagtttt cttttttgat tcatataaca tgaacacatat tcatcctcat atgaatatgg atggagacta cataaatata tttccaaaaga gaaaagctgc atatgattca aatggcaatg ttgcagttgc atttttatat tataagagta ttggtccttt gctttcatca tctgacaaact tcttatgaa acctcaaaat tatgataaatt ctgaagagga gaaaagagtc atatcttcag taatttcagt ctcaatgagc tcaaacccac ccacattata tgaacttgaa aaaataacat ttacatttag tcatcgaaag gtcacagata ggtataggag tctatgtgca ttttggaaat actcacctga taccatgaat ggcagctggt cttcagaggg ctgtgagctg acatactcaa atgagaccca caccctatgc cgctgtaatc acctgacaca ttttgcaatt ttgatgtcct ctggtccttc cattgtatt</p>	Homo sapiens

438	55728	ETL protein NP_071442.1	MCVPGFRSSS NQDRFTNDG TVCIENVNAN CHLDNVCIAA NINKTITKIR SIKEPVALLQ P	Homo sapiens
			EVYRNSVTDL SPTDIITYIE ILAESSLLG YKNNTISAKD TLSNSTLTFE VKTVNNFVQR	
			DTFVWDKLS VNHRRTHLTK LMHTVEQATL RISQSFQKTT EFDTNSTDIA LKVEFFDSYN	
			MKHIHPHMNM DGDYINIFPK RKAAYDSNGN VAVAFLYYKS IGPLLSSSDN FLLKPQNYDN	
			SEEEERVISS VISVSMSSNP PTLYELEKIT FTLSHRKVTD RYRSLCAFWN YSPDTMNGSW	
			SSEGECELTYS NETHTSRCRN HLTHEFILMS NLCCSLFLAE LVFLVGINTN TNKLFCSIIA GLLHYFFFLAA	
			CIFTWFFFE IQSTRTHKH NLCCSLFLAE LVFLVGINTN TNKLFCSIIA GLLHYFFFLAA	
			FAWMCIEGIIH LYLVVGVVY NGFHLKNEY IFGYLSPAVV VGFSALGYR YYGTTKVCWL	
			STENNFWSF IGPACLIIV NLLAFGVIIY KVERHTAGLK PEVSCFENIR SCARGALALL	
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			CFGCLR	
439	56923	Muscarinic NM_000740 acetylcholin e Receptor M3	atgaccttgc acaataacag tacaacctcg cctttgtttc caaacatcag ctccctctgg A	Homo sapiens
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			aatgtttctc gagcagctgg caatttctcc tctccagacg gtaccacga tgaccctctg	
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440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	<p>acggtcaaca actacttctt cttaagcctg gcctgtgccc atctgattat cggggtcatt</p> <p>tcaatgaatc tgttacgac ctacatcatc atgaatcgat gggccttagg gaacttggcc</p> <p>tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaacttcttg</p> <p>gtcatcagct ttgacagata cttttccatc acgagccgc tcacgtaccg agccaaacga</p> <p>acaacaaaga gagccggtgt gatgatcgtt ctggcttggg tcatctcctt tgcctttgg</p> <p>gtcctcgcca tctgttctg gcaatactt gtggaaaga gaactgtgcc tccgggagag</p> <p>tgcttcattc agttctcag tgagccacc attacttttg gcacagccat cgtgctttt</p> <p>tatatgctg tcaccattat gactatttta tactggagga tctataagga aactgaaaa</p> <p>cgtaccaaag agcttgctg cctgcaagcc tctgggacag aggcagagac agaaaactt</p> <p>gtccacccca cgggcagttc tcgaagctgc agcagttacg aacttcaaca gcaagcatg</p> <p>aaacgctcca acagagagaa gtatggcgc tgccacttct ggttcacaac caagagctgg</p> <p>aaacccagct ccgagcagat ggaccaagac cacagcagca gtgacagtgt gaacaacat</p> <p>gatgctgctg cctccctgga gaactcgc tctccgacg aggaggacat tggctccgag</p> <p>acgagagcca tctactccat cgtgctcaag cttccgggtc acagacccat cctcaactc</p> <p>accaagtac cctcatcgga caacctgcag gtgcctgag aggagctggg gatggtggac</p> <p>ttggagagga aagccgacaa gctgcagcc cagaagagcg tggacgatgg aggcagttt</p> <p>ccaaaaagct tctccaagct tcccatccag cttagagtcag ccgtggacac agctaaagact</p> <p>tctgacgtca actcctcagt gggtaagagc acggccactc tacctctgtc ctcaaggaa</p> <p>gcaactctgg ccaagaggtt tgctctgaag accagaagtc agatcaactaa gcggaagag</p> <p>atgtccctgg tcaagagaa gaaagcgcc cagaccctca gtgcgatctt gcttgcctc</p> <p>atcatcactt ggaccccata caacatcatg gttctggtga acacctttg tgacagctgc</p> <p>ataccacaaa cgttttgaa tctgggctac tggctgtgct acatcaacag caccgtgaac</p> <p>cccggtgct atgtctctg caacaaaaa gaggcgcaa cagcagtagc gctgctgctg</p> <p>tgccagtggt acaaaaaaa gaggcgcaa cagcagtagc agcagagaca gtcggtcatt</p> <p>tttcacaagc gcgcaccga gcaggcctg tag</p>	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839	<p>gaaactggcc ctggccctga accaaatacc ttgaacctc gtaaaccca taccctgacc A</p> <p>ccctgtttt ggataatccc aggtagaaca actctctctc actgtctgtt gtgaggatac</p> <p>gctgtagccc actcattaaag tacattctcc taataaatgc tttagactga tcacctgccc</p> <p>agtctttgt cttgggcaat ctatactttt ctacagaggtt cccaaggcct actgaaggga</p> <p>cttaacatac tcttaatggc ttctctctct ctgtttttac cttatgacct cacttctga</p> <p>gttaacctcc caaatacagg atcacctgta ccaagacctt tagctcaaga atacaggatc</p>	Homo sapiens

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442	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	MAPSHRASQV GFCPTPERPL WRLPPTCRPR RMSVCYRPPG NETLLSWKTS RATGTAFLLL P AALLGLPENG FVWWSLAGWR PARGRPLAAT LVLHLALADG AVLLLTPLFV AFLTRQAWPL GQAGCKAVYY VCALSMYASV LITGLLSLQR CLAVTRPFLA PRLRSPALAR RLLLA VWLAA LLIAVPAAY RHILWRDRVQ LCHPSPVHAA AHLSELTITA FVLPFGLMLG CYSVTILARLR GARWGSGRHG ARVGRILVSAI VLAFLGLWAP YHAVNLLQAV AALAPPEGAL AKLGGAGQAA RAGTTLALAF SSSVNPVLYV FTAGDLLPRA GPRFLTRLFE GSGEARGGGR SREGTMELRT TPQLKVVQG RGNDDPGGGM EKDGPEWDL	Homo sapiens
443	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSRL/Flam ingo)	NM_014246	atggcgccgc cgccgcgcgc cgtgctgccc gtgctgctgc tcctggccgc cgccgcgcgc A ctgccggcga tggggctgcg agcgccgcgc tgggagccgc gcgtaaccgc cggaaccgc gccttcgcc tcggcccg gcgtacctac gcggtggcg ccgcttgac gcccgggcg ccgcgggagc tgcctggagc tggccgcgat ggccgcgat ggccgcgat gcgctctcg ggcgcggggc gcccgctgc cgtgcaagtc cgttggtgg ccgcagtcg ccgacggcg ctgagccgc gccctgcggc gcgcacgcac ctccccgct ggggagccgc tgcccgctc tgcggaaccg gtgcccgcct ctgcggggcg cctgcttc ccgtccccgc cgctgcgcg gccgcgagc attcgccgct cgcagctccg accacttac ccgcttgccg ctgccccgcg cgccccagc ccgctgtcc cgccgctccc atctgcttc cgccggcgcg ctggtccgc ctgctctgc tgtgcgcct gcggcgccg gctggcgccg tccgggtggg actggcgctg gagccgcga ccggggggac gccctccgcg tcgcatccc catgccccc cctgccgcg aacttgccc aagcccgggc ggcccgccgc gcagggggc ggccggggc gagcgagga gggagcctga agtttcgat gcccaactac caggtggcg tgtttgagaa cgaaccggcg ggcaccctca tccctcagc gcacgcgcac tacaccatcg agggcgagga ggagcgctg agctattaca tggaggggct gttcgacgag cgtccccg gctacttccg aatcgactct gccacggcg ccgtgagcac ggacagcgtg ctgcccgcgt agaccaagg gagcacgtc ctcagggtga aagccgtgga ctacagtac cgcccgct cgccaccac ctacatcact gtcttggtca aagacaccaa cgaccacagc ccggtcttcg agcagtcgga gtaccgcgag cgctgcggg agaactgga ggtgggctac gaggtgctga ccacgcgcg cagcagccg gactgcgcca tcaacgcca cttgcgttac cgcgtgttg ggccgcttc ggacgtcttc cagctcaacg agagctcttg cgtggtgagc acacggggcg tgcctggacc ggagggagcg gccgagtacc agctcctggt ggaggccaac gaccagggcg gcaatccggg ccgctcagt gccacggcca ccgtgtacat cgaggtggag gacgagaacg acaactacc ccagttcagc gagcagaact acgtgttcca ggtgcccag gacgtggggc tcaacacggc tgtgctgga gtgcaggcca cggaccggga ccaggccag acgcggcca ttcactacag cactcctcagc gggaacgtgg ccggccagtt ctacctgac tcgctgagcg ggtcctgga tgtgatcaac cccttgatt tcgaggtatg ccagaaatc tcgctgagca ttaaggccca ggtggggg cgccccccg tcatcaattc ttcagggtg gtgtctgtgc aggtgctgga tgtcaacgac aacgagccta tctttgtgag cagccccctc cagggccacgg tgcctgagaa tgtgccccg ggctaccccc tgggtgacat tcaggcggtg gacgcggact ctggagagaa cgcccgctg cactatcgcc tgggtgacac ggcctccacc tttctggggg gcggcagcgc tggccctaa aatcctgccc ccacccctga cttccccctc cagatccaca acagctccgg ttggatcaca gtgtgtgccc agctggaccg cgaggaggtg gacactaca gcttcggggg ggagcggtg gaccacggct cggcccccat gagctcctcc accagcgtgt ccatcagcgtg	Homo sapiens

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 agccactgcy cccggccttg catgctcttt gacctgaat ttgacctact tgcggggta
 cagttgcttc cttttgaac tccaacagg aagctctgt ccagaaagga ttgaatgtga
 aacgggggca ccccttttc ttgcaaaa atactctctg ctttgggttt at
 SSFLTFLCGL VLTDFLGLV TGTIVSQHA ALFEWHAVDV GCRLCREMGV VMIFGLSPL
 LLGAAMASER YLGITRPFER PAVASQRAW ATVGLWAAA LALGLLPLG VGRYTVQYPG
 SWCFITLGAE SGDVAFGLF SMLGGLSVGL SFLINTVSVA TLCHVYHQE AAQQRPRDSE
 VEMMAQLLGI MVVASVCWLP LLVFIAQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN
 QILDPTVYIL FRAVLRLQ PRLSTRPRSL SIQPLTQRS GLQ

449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	C NM_005283	atggagtcct caggcaacc agagagcacc acctttttt actatgacct tcagagccag A	Homo sapiens
				ccgtgtgaga accaggcctg ggctcttctg accctgcga ccaactgtcct gtactgcctg	
				gtgtttctcc tcagcctagt gggcaacagc ctggtcctgt gggctcctggt gaagtatgag	
				agcctggagt cccctcacaa catcttcac ctcaacctgt gctctcaga cctggtgttc	
				gctgcttgt tgctgtgtg gatctccca taccactggg gctgggtgct gggagacttc	
				ctctgcaaac tcctcaatat gatcttcc atcagcctct acagcagcat cttcttctcg	
				acatcatga ccatccaccg ctacctgtcg gtagttagcc cctctccac cctgcgcgtc	
				ccacccctcc gctgcgggt gctggtgacc atggtgtgt ggttagcag catcctgtcc	
				tcctatcctg acaccatctt ccacaagtg ctttcttcgg gctgtgatta ttccgaactc	
				acgtggtacc tcacctcctg ctaccagcac aacctcttct tctgctgtc cctggggatt	
				atcctgttct gctacgtgga gatcctcagg accctgttcc gctcagctc caagcggcgc	
				caacgcacgg tcaagtcacat cttcgccatc gtggtggcct acttctcag ctggggtccc	
				tacaacttca cctgttttct gcagacgctg ttttcgaccc agatcatccg gagctgcgag	
				gccaaacagc agctagaata cgccctgctc atctgcgca acctgcctt cttccactgc	
				tgctttaacc cgggtgctcta tgtcttcgtg ggggtcaagt tccgcacaca cctgaaacat	
				gtctccggc agttcttggtt ctgccggctg caggcaccca gccagcctc gatccccac	
				tccctcggtg ccttcgcta tgaggcgcc tctcttact ga	
450	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	C NP_005274.1	MESSGNPEST TFFYDYLQSQ PCENQAWFA TLATTVLYCL VFLLSLVGN LVLWLVKYE P	Homo sapiens
				SLESITNIFI LNLCLSDLVF ACLLPWISP YHWGWLGD F LCKLNMIFS ISLYSSIFFL	
				TINTIHRYLS VVSPSLRV PTLRCRLVT MAVVASILS SILDTIFHKV LSSGCDYSEL	
				TWYLSVYQH NLFFLLSLGI ILFCYVEILR TLFRRSRKRR HRTVKLIFAI VWAYFLSWG P	
				YNFTLFLQTL FRTQIIRSCE AKQOLEYALL ICRNLAFSHC CFNPVLYVFV GVKFRTHLKH	
				VLRFWFECRL QAPSPASIPH SPGAFAYEGA SPY	
451	130108	G Protein-Coupled Receptor GPR75	NM_006794	gcgatggcga tgatgcctct agtcctgcat catccagagc ggacggcgag ctgggggtccg A	Homo sapiens
				gactgcgaga tggaggagggg gcgcgtcgcg gcacccggca ggcttatctg tcttgggcct	
				cttttgtcac atattgctca tctgtgagct gaggccctga ctcactgagt atttttgggg	
				agcagaagaa ggagacattt ctctccgaaa atgaacctca caggccacct tcaggatgcc	
				cccaatgcca cctcgctcca tgtgcctcac tcacaggaag gaaacagcac ctctctccag	
				gagggtcttc aggatctcat ccacacagcc accttgggtga cctgtacttt tctactggcg	
				gtcaatcttct gcctggggttc ctatggcaac ttcattgtct tcttgtcctt cttcgatcca	
				gccttcagga aattcagaac caactttgat ttcatgatcc tgaacctgtc ctctgtgac	
				ctcttcattt gtggagtgac agcccccatg ttcaacctttg tgttattctt cagctcagcc	
				agtagtatcc cggatgcttt ctgcttcaat ttccatctca ccagttcagg cttcatcatc	
				atgtctctga agacagtggc agtgatcgcc ctgcacggc tccgatgggt gttggggaaa	
				cagcctaacc gcacggcctc ctttccctgc accgtactcc tcacctgtct tctctgggcc	
				accagtttca cccctggcac ctltggctacc ttgaaaacca ccaagtccca cctctgtctt	
				cccatgtcca gtctgattgc tggaaaaggg aaagccattt tgtctctcta tgtggtcgac	
				ttcaacttct gtgttgctgt ggtctctgtc tcttacctca tgattgtca gacctggcgg	
				aagaacgctc agtcagaaa gtgccccctt gtaatacacg tcatgtcttc cagaccacag	
				cctttcatgg ggttccctgt gcaggagggt ggagatccca tccagtgtgc catgccggt	
				ctgtatagga accagaatta caacaaactg cagcacgttc agaccgttg atataccaag	

452	130108	G Protein- Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactggtcac cctgcagca agcgcactcc agctgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctggtgtgct gtcttccact ggggatttcc ttggtacagg tgggtctctc cagcaatggg agcttcattc ttaccagtt tgaattgttt ggatttactc ttatatcttt caagtcagga ttaaacctt ttatatatto tcggaacagt caggggtga gaagaaagt gctctggtgc ctccaatata taggcctggg ttttttctgc tgaatacaaa agactcgact tcgagccatg ggaagaggga acctcgaagt caacagaaac aaactcctcc atcatgaaac aaactctgcc tacatgttat ctccaagcc acagaagaaa ttgtggacc aggcctgtgg cccaagtcac tcaaaagaaa gtatggtgag tccaagatc tctgtggac atcaactg tggtcagagc agctcgacc ccataacac tcggattgaa ccttactaca gcattctata cagcagccct tcccaggagg agagcagccc atgtaactta cagccagtaa actcttttgg atttgccaat tcatatattg ccattgatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt cccctccgtt taaagtcagt gaggctatag gatcttatgt aaacagtttt tgtttctgat agtaatggac ttattcttaa ctbgagatca gtggcggatc aaacactaca agattcaact gaaaagtggc cagttatggt tttcttccat ctgatgtgtc agtatctgtt gatttcttt ttagtttgtt gacatcttaa gattgatgt gaaagtttta gattttttac cctg </p>	Homo sapiens
453	133117	G Protein- Coupled Receptor RAIG1	NM_003979	<p> MNSTGHLQDA PNATSLHVPH SQEGNSTSLQ EGLQDLIHTA TLVTCFLLA VIFCLGSYGN P FIVELSFDDP AFRKRTNED FMILNLSFCD LFICGVTPAM FTFVLFESSA SSIPDAFCFT FHLTSSGFII MSLKTVAVIA LHLRLMVLGK QPNRTASFPC TVLLTLLLWA TSFTLATLAT LKTSKSHLCL PMSSLIAGKG KAILSLYVVD FTFCAVAVSV SYIMIAQTLR KNAQVRKCPP VITVDASRPQ PFMGVPVQGG GDPIQCAMPA LYRNQNNKL QHVQTRGYTK SPNQLVTPAA SRLQLVSAIN LSTAKDSKAV VTCVIVLSV LVCCPLPLGIS LVQVVLSSNG SFILYQFELE GFTLIFFKSG LNPFIYSRNS AGLRRKVLWC IQYIGLGFEC CKQKTRLRAM GKNLEVNRR KSSHHTNSA YMLSPKPQKK FVDQACGPH SKESMVSPKI SAGHQHCGQS SSTPINTRIE PYYSIYNSSP SQEESPNCNL QPVNSFGFAN SYIAMHYHTT NDLVQYVDST SAKQIPVPSV ataacagcat gaagtgcgt gaaactggaa taggcgtgtc ctctccctcg accctcccc A tccttgtccc tctgtcacc cctcgctcgt tccctccctc cggcaggggc cgcctttata acaactgctc agagtgcgag ggcgggatag ctgtcccaagg tctccccag cactgaggag ctgcctgct gccctcttc gcgcgggaag cagcaccaag ttcacggcca acgccttggc actaggtcc agaattgcta caacagtcct tgatggttgc cgcaatggcc tgaatccaa gtaactacaga ctttgtgata agcgtgaagc ttggggcctc gtccagaaa cgggtggccac agccggggtt gtgacctcgg tggccttcat gctcactc cgcactcctg tctgcaaggt gcaggactcc aacagcgaa aaatgctgc tactcagttt ctcttccctc tgggtgtgtt gggcatctt ggcctcacct tcgccttcat catcgagctg gacgggagca cagggccac acgttcttct ctcttttggga tcccttttct catctgtctc tccgtcctgc tggctcatgc tgtcagctcg accaagctcg tccgggggag gaagccctt tccctgttg tgaattctggg tctggcctg ggcctcagcc tagtccagga tgtatcgct attgaatata ttgtcctgac catgaatagg accaagctca atgtcttctc tgagcttctc gctcctcctc gcaatgaaga ctttgtctc ctgctcact acgtcctctt ctgatggcg ctgacctcc tcatgtcctc cttcaccttc tgtgttctt tcacgggctg gaagagacat ggggccaca tctacctcac </p>	Homo sapiens

454	133117 G Protein- Coupled Receptor RAIG1	NP_003970.1	gatgtcctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttcctgactt tgaccgagg tgggatgaca ccactctcag ctcgccttgg ctgccaatg gctgggtggt cctgttggt tatgttagtc ccgagttttg gctgctcaca agcaaacgaa acccatgga ttatcctgtt gagatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatcac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattccacac atttcagct gcagaaccag ctcctccaaa aggaattctc catccacagg gccacgctt ggcgagccc ttacaaagac tatgaagtaa agaaagagg cagtaaacct tgtctgaag agtgggacaa atgcagccgg gcgagagatc tagcggagc tcaagggat tgggggaaa tcttgatct tctgagaaa ctgtacaaga cactacggga acagtttggc tccctccag cctcaaccac aattcttcca tctgtgggct gatgtggct agtaagactc cagttcttag aggcgtgta gtatttttt tttttgtct cctccttgg atacttcttt taagtgggag tctcaggcaa ctcaagtta gaccttact cttttgtt gtttttttaa acagatctt gctctgtcac ccaggcttga gtgcagtggc gcgacacag ccagtgacag cctcgaccac ctgtgtctca gcaatcctcc catctccatc tcccaagtg ctgggatgac aggcgtgagc cacagctccc agcctaggcc cttaatcttg ctgttattt ccatggacta aaggtctggt catctgagct cagctggctc cacacagctc taggggctg ctcctctaac tcacagtggg ttttgtgagg ctctgtggcc cagagcagac ctgcatatct gagcaaaaat agcaaaagcc tctctcagcc cactggcctg aatctacact ggaagccaac ttgtgggac cccgctccc caaccttct tgcctgggta ggagaggcta agatcaccc taaatctact catctctcta gtgctgctc acattgggctc tcagcagctc ccagaccca attcacaggt caccctctc tcttgacct gtcctcaaac ttgctgtcaa tcccgagatc taatctcccc ctacgctctg ccaggaaatc ttccagacct cactagcaca agcccggtg ctcctgttca ggagaattg tagatcattc tcaactcaa ttcctgggctc tgatacttct ctcatcttgc acccaacct ctgtaaatag atttaccgca tttacggctg cattctgtaa gtgggcatgg tctcctaag gaggagtgt cattgtataa taagtattc acctgagtat gcaataaaga tgtggtggcc actcttctcat ggtggtggca gcaaaaaaaa aaaaa MATVPDGR NGLSKYYRL CDKAEAWGIV LETVATAGV TSVAFMLTLP ILVCKVQDSN P RRMLPTQFL FLGLVGIFG LTFAFIIGLD GSTGPTREFL FGILFICFS CLLAHAVSLT KLVGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTNRT NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSSFTFC GSFTGWKRHG AHYILTMLLS IAIWVAWITL LMLPDFDRRW DPTILSSALA ANGWVFLIAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGE ETGDTLVAPY STHFQLQNP PQKEFSIPRA HAWPSYKDY EVKKEGS atggggacct gtgacattgt cactgaagcc aatatctcat ctggccttga gagcaacacc A acggccatca cagccttctc ctgccccagc tggcagctgg cactgtggcc accagcctac ctggccctgg tgcgtgtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc catcggagga tgcgcacagt caccactac ttcctgtca atctggcgt ggctgacctc tgcatggctg cttcaatgc cgccttcaac ttgtctatg ccagccacaa catctggtac tttgccctg cttctgcta cttccagaac cttctccca tcacagccat gttgtcagc atctactcca tgaccgcat tgctgccgac aggtacatgg ccatcgtcca cccctccag cctcggctt cagctccag caccaggcg gttattgtg gcattgtgct ggtggtctc gccttggcct cccctcagtg cttctactcc accgtcacca tggaccaggg tggccaccaag	Homo sapiens
455	152198 Tachykinin Receptor 2	NM_001057	gatgtcctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttcctgactt tgaccgagg tgggatgaca ccactctcag ctcgccttgg ctgccaatg gctgggtggt cctgttggt tatgttagtc ccgagttttg gctgctcaca agcaaacgaa acccatgga ttatcctgtt gagatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatcac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattccacac atttcagct gcagaaccag ctcctccaaa aggaattctc catccacagg gccacgctt ggcgagccc ttacaaagac tatgaagtaa agaaagagg cagtaaacct tgtctgaag agtgggacaa atgcagccgg gcgagagatc tagcggagc tcaagggat tgggggaaa tcttgatct tctgagaaa ctgtacaaga cactacggga acagtttggc tccctccag cctcaaccac aattcttcca tctgtgggct gatgtggct agtaagactc cagttcttag aggcgtgta gtatttttt tttttgtct cctccttgg atacttcttt taagtgggag tctcaggcaa ctcaagtta gaccttact cttttgtt gtttttttaa acagatctt gctctgtcac ccaggcttga gtgcagtggc gcgacacag ccagtgacag cctcgaccac ctgtgtctca gcaatcctcc catctccatc tcccaagtg ctgggatgac aggcgtgagc cacagctccc agcctaggcc cttaatcttg ctgttattt ccatggacta aaggtctggt catctgagct cagctggctc cacacagctc taggggctg ctcctctaac tcacagtggg ttttgtgagg ctctgtggcc cagagcagac ctgcatatct gagcaaaaat agcaaaagcc tctctcagcc cactggcctg aatctacact ggaagccaac ttgtgggac cccgctccc caaccttct tgcctgggta ggagaggcta agatcaccc taaatctact catctctcta gtgctgctc acattgggctc tcagcagctc ccagaccca attcacaggt caccctctc tcttgacct gtcctcaaac ttgctgtcaa tcccgagatc taatctcccc ctacgctctg ccaggaaatc ttccagacct cactagcaca agcccggtg ctcctgttca ggagaattg tagatcattc tcaactcaa ttcctgggctc tgatacttct ctcatcttgc acccaacct ctgtaaatag atttaccgca tttacggctg cattctgtaa gtgggcatgg tctcctaag gaggagtgt cattgtataa taagtattc acctgagtat gcaataaaga tgtggtggcc actcttctcat ggtggtggca gcaaaaaaaa aaaaa MATVPDGR NGLSKYYRL CDKAEAWGIV LETVATAGV TSVAFMLTLP ILVCKVQDSN P RRMLPTQFL FLGLVGIFG LTFAFIIGLD GSTGPTREFL FGILFICFS CLLAHAVSLT KLVGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTNRT NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSSFTFC GSFTGWKRHG AHYILTMLLS IAIWVAWITL LMLPDFDRRW DPTILSSALA ANGWVFLIAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGE ETGDTLVAPY STHFQLQNP PQKEFSIPRA HAWPSYKDY EVKKEGS atggggacct gtgacattgt cactgaagcc aatatctcat ctggccttga gagcaacacc A acggccatca cagccttctc ctgccccagc tggcagctgg cactgtggcc accagcctac ctggccctgg tgcgtgtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc catcggagga tgcgcacagt caccactac ttcctgtca atctggcgt ggctgacctc tgcatggctg cttcaatgc cgccttcaac ttgtctatg ccagccacaa catctggtac tttgccctg cttctgcta cttccagaac cttctccca tcacagccat gttgtcagc atctactcca tgaccgcat tgctgccgac aggtacatgg ccatcgtcca cccctccag cctcggctt cagctccag caccaggcg gttattgtg gcattgtgct ggtggtctc gccttggcct cccctcagtg cttctactcc accgtcacca tggaccaggg tggccaccaag	Homo sapiens

456	152198 Tachykinin Receptor 2	NP_001048.1	tgctggtgg cctgggcccga agacagcggg ggcaagacgc tctcctgta ccactcgtg gtgatcgcc teatctactt cctgcgcctc gcggtgatgt ttgtagccta cagcgtcatc ggcctcacgc tctggaggcg cgcagtccc gcacatcagg cgcacgggtgc caactccgc catctgcagg ccaagaagaa gtttgtgaag accatggtgc tgggtggtgct gacgtttgcc atctgctggc tgcctacca cctctactc atcctgggca gcttccagga ggacatctac tgccacaagt tcatccagca agtctacctg gcactcttct ggttggccat gagctctacc atgtacaatc ccatcatcta ctgctgtctc aaccacagg ttgcgtcttg gttccggtt gccttccgt gctgcccag ggtcacacc accaaggag ataaagctga gctgactccc acgacctccc tctccacgag agtcaacagg tgtcacacta aggagacttt gttcatggct ggggacacag cccctccga ggctaccagt ggggaggcg ggcgtcccca ggtggatca gggctatggt ttgggtatgg ttgtcttgc cccacacaaa ctcatgttga aatttga HRRMRTVTNY FIVNLALADL CMAAFNAEN FVYASHNIW FGAFICYFQN LFPITAMFVS IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCIFY TVTMDQGATK CVVWAPEDSG GKTLLEYHLV VIALIYFLPL AMFVAYSIV GLTLWRRAPV GHQAHGANLR HLQAKKKFVK TMVLVVLTFE ICWLPHYLYF ILGSFQEDYI CHKFIQQVYL ALFWLAMSST MYPPIIYCCL NHRFRSGFRL AFRCCPWVTP TKEDKLELTP TTSLSRWRN CHTKETLFMA GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PTKTHVEI	Homo sapiens
457	152201 Thyrotropin Receptor	NM_000369	ccgctcccg gctcctttt ggcctggggt aaccgaggt gcagagctga gaatgaggcg A atttcggagg atggagaaat agccccagt cccgtggaaa atgaggcccg cggacttgct gcagctgggt ctgctgctcg acctgcccag ggacctgggc ggaatggggt gttcgtctcc acctcgcgag tgcctcagg aggaggactt cagagtcacc tgaaggata ttcaacgcgt ccccagctta cgcgccagta cgcagactct gaagcttatt ggaactcacc tgagaactat tccaaagtcat gcattttcta atctgcccga tatttccaga atctacgtat ctatagatgt gactctgcag cagctggaat cacactcct ctacaatttg agtaaatga ctacataga aattcggaat accaggaaat taacttacat agacctgat gccctcaaag agtccccct cctaaagtcc ctggcattt tcaacactgg acttaaatg ttcctgacc tgaccaagt ttattccact gatatattct ttatacttga aattacagac aaccttaca tgacgtcaat ccctgtgaat gcttttcagg gactatgcaa tgaaaccttg acactgaagc tgtacaacaa tggctttact tcagtccaag gatattgctt caatgggaca agcctggatg ctgtttacct aaacaagaat aaatacctga cagttattga caaagatgca ttggaggag tatacagtgg accaagcttg ctggacgtgt ctcaaacccag tgtcactgct cttccatcca aaggcctgga gcacctgaag gaactgatag caagaaacac ctggactctt aagaaacttc cactttcctt gagtttccct cacctcacac gggctgacct ttctaccca agccactgtc gtgcttttaa gaatcagaag aaatcagag gaatccttga gtccttgatg tgtaatgaga gcagtatga gagcttgcc cagagaaaat ctgtgaatgc cttgaatagc cccctccacc aggaatatga agagaatctg ggtgacagca ttgttgggta caaggaaaaa tccaagtccc aggatactca taacaacgct cattattacg tcttctttga agaacaagag gatgatca ttgggttttg ccaggagctc aaaaacccc aggaagagac tctacaagct tttagacagc attatgacta caccatatgt ggggacagt agacatggt gtgtacccc agtccgatg agttcaacc gtgtgaagac ataattgggt acaagtctct gagaattgtg gtgtggttcg ttagtctgct	Homo sapiens

458	152201	Thyrotropin Receptor	NP_000360.1	<p> ggctctcctg ggaatgtgtt ttgtcctgct tattctctc accagccact aaaaactgaa cgcccccg tttctcatgt gaaacctggc ctttgcggat ttctgcattg ggaatgacct gtctctcatc gctctgttag acctctaac tcaactctgag tactacaacc atgccatcga ctggcagaca ggcctgggtt gaaacacggc ttgtttcttc actgtctttg caagcgagtt atcgggtgat acgctgacgg tcatcacctt ggagcgtgg tatgccatca ccttcgccat ggcctggac cggagatcc gctcaggca cgcattgctc atcatgggtt gggcctgggt ttgtgcttc cttctgccc tgcctcttt ggtgggaata agtagctatg ccaagtcag tatctgctc cccatggaca ccgagacccc tcttgctctg gcatatattg tttttgtct gacgtcaac atagttgctt tctgctcgt ctgctgctgt catgtgaaga tctacatcac agtcggaat ccgcagtaca acccaggga caaagatacc aaattgcca agagatggc tgtgttgatc ttaccgact tcatatgcat ggcctcaatc tcatctatg ctctgtcagc aattctgaac aagcctctca tcaactgttag caactccaaa atctgtctgg tactcttcta tccacttaac tctgtgcca atccattct ctatgctatt ttcaccaagg ccttcacagag ggatgtgtc atctactca gcaagtttg catctgtaa cgcaggctc aggcataccg ggggcagagg gttctccaa agaacagcac tgatatctag gttcaaaaagg ttaccacga catgaggcag ggtctccaa acatggaaga tgcctatgaa ctgattgaaa actcccatct aaccctaaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgtaagttaa cactacacta ctcaaatgg taggggaact tacaaaaata tagtttcttg aatatgcatt ccaatcccat </p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p> ETHLTIPSH AFSNLPNISR IYVSIDVTLQ QLESHSFYNL SKVTHIEIRN TRNLTYIDPD ALKELPLKLF LGIFNTGLKM FPDLTKVYST DIFFILEITD NPYMTSIPVN AFQGLCNETL TLKLYNNGFT SVQGYAFNGT KLDAYILNKN KYLTVIDKDA FGGVYSGPSL LDVSQTSVTA LPSKGLEHLK ELIARNWTIL KKLPLSLSL FLHTRADLSYP SHCCAFKNQK KIRGILESLE CNESMQSLR QRKSVNALNS PLHQEYEENL GDSIVGYKEK SKFQDTHNNA HYYVFFEEQE DEIGFGQEL KNPQEEITLQA FDSHYDYTIC GSEDVMVCTP KSDEFNCPED IMGYKFLRIV VWFVSLALL GNVFVLLIL TSHYKLNVR FILMCLAFAD FCMGMVLLLI ASVDLYTHSE YYNHAIWQT GPGCNTAGFF TVFASELSVY TLTVTILRW YAITFAMRLD RKIRLRHACA IMVGGWVCCF LLALLPLVGI SSYAKVSICL PMDTETPLAL AYIVEVLTLN IVAFVIVCCC HVKIYITVRN PQYNPGDKDT KIARMAVLI FTDFICMAPI SFYALSAILN KPLITVSNK ILLVLFYPLN SCANPFLYAI FTAKAFQRDVF ILLSKFGICK RQAQYRGQR VPPKNSTDIQ VQVTHDMRQ GLHNMEDVYE LIENSHLTPK KQCISEEM QTVL caggactgcc tgagacaagc cacaagctga cacagaaaag tggattgaac aaggacgcac A ttccccagta catccacacac atgctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accaccttt ttgattatga ttacggtgct ccctgtcata aatttgacgt gaagcaaat ggggcccac tctgcctcc gctctactcg ctggtgttca tctttggttt tgtgggcaac atgctggtcg tccatctctt aataaaactgc aaaaagctga agtgttgac tgacatttac ctgctcaacc tggcactctc tgatctgctt ttcttatta ctctccatt gtgggctcac tctgctgcaa atgagtggtt ctttgggaat gcaatgtgca aattattcac agggctgtat cacatcggtt atttggcgg aatctcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgcttttaaa gccaggacgg </p>	Homo sapiens

460	152245 C-C Chemokine Receptor 2	NP_000639.1	MLSTSRSRFI RNTNESGEEV TTFDDYDGA PCHKFDVKQI GAQLLPPLYS LVFIFGVGN P	MLVLLILNC KKLKCLTDIY ILLTIDRYL AIVHAVFALK ARTVFGVVT SVITLVAVF ASVPGIIFTK CQKEDSVYVC GPYFPRGWN FHTIMRNILG LVLPLLMVI CYSGLKTL L RCRNEKKRHR AVRIFTIMI VYFLFWTPYN IVILLNTFQE FFLSNCEST SQLDQATQVT ETLGMTHCCI NPIIYAFVGE KERRYLSVFF RKHITKRFC QCPVFYRETV DGVSTNTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAAATGAAC ACGTTTCTA AAATAAAGTC AAGCCAAAGT A GTCTTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTTCTGAG GCCCAGGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAAA TAGGGAAACC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGGG ATCAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATATCTGA ATTTTCCACT CTATGGATGA TCACTTTTAT TCTTTTCCCTT TTCTTGAATT TATTTCCATT TGTATTATCC TAAATTCCCT GGATGATCAC CTGTGAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGA AGGATTGAC TTACAGCAG AGACTTACA AGGAGTCTC TCTAGGAGCA AATTGGGGC AATCCAGTG GAAGAGTGGA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT	Homo sapiens
461	152299 Interleukin-8 Receptor A	IG5459			Homo sapiens

462	152299 Interleukin- 8 Receptor A	NM_000634	Homo sapiens
			agctgttaag tcactctgat ctctgactgc agctctact gttggacaca cctggccggt A
			gcttcagtta gatcaacca ttgtgaaac tgaagaggac atgtcaata ttacagatcc
			acagatgtgg gattttgatg atctaaattt cactggcatg ccactgacg atgaagatta
			cagccctgt atgtctagaaa ctgagacact caacaagtat gttgtgatca tgcctatgc
			cctagtgttc ctgtgagcc tgctgggaaa ctccctgggt atgtgtgtca tcttatacag
			cagggtcggc cgtccgtca ctgagtcta cttgctgaac ttggccttgg ccgacctact
			ctttgcccctg acctgcccc tctggccgc ctccaagggt aatggctgga tttttggcac
			atccctgtgc aagtggtct cactcctgaa ggaagtcaac ttctacagtg gcatcctgct
			gttggcctgc atcagtgtgg accgttacct ggccattgtc catgccacac gcacactgac
			ccagaagcgt cacttggtca agttgtttg tcttggtctg tggggactgt ctatgaatct
			gtccctgccc tcttccctt tccgccaggc ttaccatcca acaaatccca gtccagtgtg
			ctatgaggtc ctgggaaatg acacagcaaa atggcggatg gtgttgcgga tctgacctca
			cacctttggc ttcactgtgc cgtgtttgt catgctgttc tgcctatggt tcacctgtg
			tacactgttt aaggccaca tggggcagaa gcaccgagcc atgaggggtca tctttgctgt
			cgtccctcat tctctgtctt gctggctgcc ctacaacctg tctctgtctg cagacacct
			catgaggacc caggtgatcc aggagagctg tgagcgccgc acaaatctcg gccggccct
			ggatgccact gagttcttg gatttctcca tagctgctc aacctcatca tctacgctt
			catcggccaa aatttctgc atggattcct caagatcctg gctatgcatg gcctgggtcag
			caaggagtct ttggcagctc atcgtgttac ctctacact tctctgtctg tcaatgtctc
			ttccaacctc tgaataacct cgatgaagga atatctcttc tcagaaggaa agaataacca
			acacctgag gttgtgttg gaagtgatc tggctctgga caggcactat ctgggttttg
			gggggacgct ataggtgtg gggaagttag gaactgtgt cttcaggggc cacaccaacc
			ttctgaggag ctgttgaggt acctccaaag accggcctt gcacctccat ggaacgaag
			caccatcatt cccgttgaac gtcacatct taacctact actggctaat tagcatggcc
			acatctgagc cccgaatctg acattagatg agagaacagg gctgaagctg tgcctcatg
			agggctggat gctctggtg acctcacag gagcatctcc tcaactctga gtgttaagcg
			ttgagccacc aagctggtg ctctgtgtgc tctgatccga gctcaggggg gtgttttcc
			catctcaggt gtgttcagt gtctgtgga gacattgagg caggcactgc caaaacatca
			acctgccagc tggcctgtg aggagctgga aacacatgtt ccccttgggg gtgtgtggtg
			aacaaagaga aagagggtt ggaagccaga tctatgccac aagaaccccc ttaccoccca
			tgaccaacat cgcagacaca tgtgtggcc cctgtctgag cccaagtgg aacgagacaa
			gcagccctta gccctcccc tctgcagctt ccaggctggc gtgcagcatc agcatcccta
			gaaagccatg tgcagccacc agtccattgg gcaggcagat gtcttaata aagcttctgt
			tccgtgcttg tccctgtgga agtatcttgg tttgtgacaga gtcaagggtg tgtgcagcat
			tgttggctgt tccctgagta gaatgggggc agcacctcct aagaaggcac ctctctgggt
			tgaaggggcag tgttccctgg ggctttaat cctgtagaa cagtctcttg aggcacagaa
			actcctgttc atgccatac cctggccaa ggaagatccc tttgtccaca agtaaaagga
			aatccctctc caggaggtct cagcttcacc ctgaggtgag catcatcttc tgggttaggc
			cttgcctagg catagcctgc ctcaagctat gtgagctcac cagtcctccc ccaatgctt
			tccatgagtt gcagttttt cctagtctgt ttccctcct tggagaacag ggccctgtcg
			gtttgttcac tgtatgtct tgggtgcttg agcctactaa atgtcacta ataatgata

463	152299	Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcgatgctg aaaagaccac tctttt	MSNITDPQMW DFDDINFTGM PPADEDYSPC MLETETLNKY VVIAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLEAL TLPWAASKV NGWIFGTFLC KVSLLKEVN FYSGILLAC ISVDYLAIV HATRTLTQKR HLKVEVCLGC WGLSMNLSLP FFLEFQAYHP NNSSPVCYEV LGNDTAKWRM VLRIPLHTEG FIVPLFVMLF CYGFTLRTLK KAHMGQKHRA MRVIFAVVLI FLLCWLPLYN LLLADTLMT QVIQESCERR NNIGRALDAT EILGFLHSL NPIIYAFIGQ NFRHGLSKIL AMHGLVSKEF IARHRVTSYT SSSNVVSSNL	Homo sapiens
464	158822	Mas Proto-Oncogene	NM_002377	ctctgagcct cctcatggat gggtcaaacg tgacatcatt tgtgtgtgag gaacccaaga A acatctcaac tggcaggaac gcctcagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tccccagtcg gggtgttga gaatgggatt ctctctggt tctgtgctt cggatgaga agaaatccct tcaactgtca catcacccac ctgtctatcg cagacatctc actgctcttc tgtattttca tctgtctat cgaactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttggct acaacacggg cctctatctg ctgacggcca ttagtgtga gagtgccctg tcagtccttt accccatctg gtaccgatgc catcgcccca agtaccagtc ggcatgggtc tgtgcccttc tgtgggctct ttctgtctg gtgaccacca tggagtatgt catgtgcacg gacagagaag aagagagtc cctcgggaat gactgcggag cagtcacatc ctttatagcc atcctgagct tctgtgctt cagcgcctc atgctggtgt ccagcaccat ctgtgtcgtg aagatccgga agaacacgtg ggcttccat tctcccaagc ttacatagtc catcatggtc accatcata tattctcat ctctgctatg cccatgagac tctttacct gctgtactat gagtattggt cgacctttgg gaacctacac cacatttccc tgccttctc cacaatcaac agtagcgcca acctttctat ttacttcttt gtgggaagca gtaagaagaa gagattcaag gagtccctaa aagtgttct gaccagggt ttcaaatgag aaatgcaacc tcggcgccag aaagacaaat gtaatacggg cagagttag actgtcgtct aagaactgtg aggaagtgtg tggataaaaa tgggtgaaca caggtcatct ttagtttgtg ctggaatat gacttaagta tctcctaaat gtgatacaga agaactctc atcccatatg catgagatc taattaatga tgaaa gtgatacaga agaactctc atcccatatg catgagatc taattaatga tgaaa	MDSNVTSTF VEEPTNISTG RNASVGNHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P MRNPFTVYI THLSIADISL LFCIFILSID YALDYELSSG HYTFIVTSLV TFLEGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTMEYVM CIDREEESH RNDRAVIF IAILSFLVFT PLMLVSSTIL VVKIRKNTWA SHSKLYIVI MVTIIIFLIF AMPMLLLYLL YYEYWSPTFGN LHHISLLFST INSSANPFIY FFVGSKKKR FKESLKVLT RAFKDEMQPR RQKDCNNTVT VETW	Homo sapiens
465	159152	G Protein-Coupled Receptor GPR43	NM_005306	atgctgcccg actggaagag ctctctgac ctcatggctt acatcatcat ctctctcaat A ggctccctg ccaacctctt ggccctgagg gcctttgttg ggcgatccg ccagccccg cctgcacctt tgcacatcct cctgctgagc ctgacgctgg ccgacctct cctgctgctg ctgctgccct tcaagatcat cgaggctgag tgaacttcc gctgtacct gcccaaggct gtctgcgcc tcacgagttt tggcttctac agcagcatct actgcagcac gtggctcctg gcgggcatca gcacgagcg ctacctgga gttggcttcc cctgcagta caagctctcc cgccggcctc tgtatggagt gattgcagct ctgggtggct gggttatgtc ctttggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcaggtcag aagtggcaat	atgctgcccg actggaagag ctctctgac ctcatggctt acatcatcat ctctctcaat A ggctccctg ccaacctctt ggccctgagg gcctttgttg ggcgatccg ccagccccg cctgcacctt tgcacatcct cctgctgagc ctgacgctgg ccgacctct cctgctgctg ctgctgccct tcaagatcat cgaggctgag tgaacttcc gctgtacct gcccaaggct gtctgcgcc tcacgagttt tggcttctac agcagcatct actgcagcac gtggctcctg gcgggcatca gcacgagcg ctacctgga gttggcttcc cctgcagta caagctctcc cgccggcctc tgtatggagt gattgcagct ctgggtggct gggttatgtc ctttggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcaggtcag aagtggcaat	Homo sapiens

467	159152 G Protein- Coupled Receptor GPR43	NP_005297.1	gaaattacct gctacagagaa cttcaccgat aaccagttgg acgtggtgct gccctgctgg ctggagctgt gccctggtgct cttcttcac cccatggcag tcaccatctt ctgctactgg cgtttttgtgt ggatcatgct ctcaccagccc cttgtggggg ccagagggcg gcgccgagcc gtggggctgg ctgtggtgac gctgctcaat ttctctggtg gcttcggacc ttacaacgtg tcccacctgg tggggtatca ccagagaaaa agcccctggt ggcggtcaat agccgtggtg ttcagttcac tcaacgccag tctggacccc ctgctcttct attctcttc ttcagttggtg cgcagggcat ttgggagagg gctgcaggtg ctgcggaatc agggctcctc cctgttggga cgcagaggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa gggatgccaa gtctgacct cactacagag tag MLPDMKSSLI LMAVIIIFLT GLPANLLALR AFVGRIRQPQ PAPVHILLLS LTLADLLLL P LLPFKIIIEAA SNFRWYLPKV VCALTSEGFY SSIYCSTWLL AGISIERYLK VAFPVQYKLS RRPLYGVIAA LVAVWMSFGH CTIVIIQYL NTTEQVRSNG EITCYENFTD NQLDVVLPVR LELCVLFFI PMAVTIFCYW RFVWIMLSQP LVGAQRRRA VGLAVVTLLN FLVCFGPYNV SHLVGYHQRK SPWRSIAV FSSLNASLDP LLFYFSSSVV RRAFGRGLQV LRNQSSLLG RRGKDTAEGT NEDRGVQGE GMPSSDFTTE	Homo sapiens
468	159973 Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	gccacacagg cagcgccact ctgcccaggt cccggccatc gcccgccctgg tgcgccgcc A gccagctctt tgcgcgcgcg gtgcgcgcgc cgcggggctc agggcagacc atgcgccgcg caagtccgct gccgcgcgcg tggctatgcg tgctggcagg cgcctcgcc tgggcccttg ggccggcggg cggccagggc gccaggctgc aggaggagtg tgactatgtg cagatgatcg aggtgcagca caagcagtgc ctggaggagg cccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacctc acctgctggc cagccacccc tcggggccag gtatgtgtct tggcctgtcc cctcatcttc aagctcttct cctccattca aggcgcgaat gtaagccgca gctgcaccga cgaaggctgg acgcacctgg agctggccc gtacccatt gccctgtggtt tggatgacaa ggcagcgagt ttggatgagc agcagacctt gttctacggt tctgtgaaga ccggctacac cattggtac gccctgtccc tcgccacct tctgtcgcc acagctatcc tgagcctgtt cagggaagctc cactgcacgc ggaactacat cccatgacac ctcttcatat ccttcacct gagggctgcc gctgtcttca tcaagacctt ggccctcttc gacagcggg agtcggacca gtgctccgag ggctcggtgg gctgtaaggc agccatggtc ttttccaat attgtgtcat ggctaacttc ttctggctgc tgggtgaggg ccttacctg tacacctgc ttgccgtctc cttctctct cagcggaagt acttctggg gtacatactc atcggtggg gggtacccag caccatcac atgggtgga ccatcgccag gatccatttt gaggattatg gggtctggga caccatcaac tctcactgt ggtggatcat aaaggcccc atcctcacct ccatcttgggt aaattcatc ctgtttattt aatcctgctt cagaaaactgc ggccccaga tatacggaa agtgacagca gtccatactc aaggtagacc aggtccacac tccgtctgat cccctgttt ggagtacac acatcatgtt cgcctcttt cggacaatt ttaagcctga agtgaagatg gtctttgagc tgcgtgtgg gctttccag ggttttgtg tggctatcct ctactgtct ctaaatggtg aggtgcaggc ggagctgagg cggaaagtggc ggcgctggca cctgcagggc gtctgggct ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cgcacgtgc agcagcagg ttccatgtt gaccgctc agcccaggtg ccgcgcgtc ctccagctc caagccgaag tctccctggt ctgaccacca ggatccagg ggcccaaggc ggccctccc gcccttccc actcaccccc gcagacggc gggacagagg	Homo sapiens

469	159973 Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	MRPSPPLPAR WLCVLAGALA WALGPAGGQA ARLQEEDYV QMIEVQHKQC LEEAQLNET P IGCSKMWDNL TCWPATPRGQ VVVLACPLIF KLFSSIQGRN VSRCTDEGW THLEPGYPPI ACGLDDKAAS LDEQQTMEY SVKTGYTIGY GLSLATLLVA TAILSLEFKL HCTRNYIHMH LFISFILRAA AVFIKDLALF DSGESDQCE GSVGCKAAMV FFQYCVMANF FWLLVEGLYL YTLAVSFFS ERKYFWGYIL IGWGVPTET MWVTIARIHF EDYGCWDTIN SSLWIIKGP ILTSILVNF I LFICIIRILL QKLRPPDIRK SDSSPYSRLA RSTLLLIPLF GVHYIMEAFF PDNFKPEVKM VFELVGSFQ GFVAILYCF INGEVQAE LR RKWRRWHLQG VLGWNPKYRH PSGSGNGATC STQVSMLTRV SPGARRSSSF QAEVSLV cgggacgagg gggcgcccc cgcgctcggg cgcgctcggct acagctgcgg ggccccgagt A ctccgcgcac tcgctccccg cccatgctgg aggcggcgga acccgggga ctaggacgg aggcggcggg cgcgggcggg cccccggac gctgagctcg ggatgcggac gctgctgct cccgcgctgc tgacctgtcg gctgctcgc cccgtgaaca gcattcaacc agaatgcga tttcatctgg aaatacagga ggaagaaaca aaatgtacag agcttctgag gctcaaaa gaaaacaca aagcctgcag tggcgtcgg gacaacatca cgtgctggcg cctgccaat gtggagaga cgcgcacgtt gccctgcca aagctcttca gcaatttta cagcaagca gaaacataa gcaaaaactg tacgagtgc gcatggtcag agacgttccc agattctgc gatgcctgtg gctacagca cccggaggat gagagcaaga tcacgtttta tattctggtg aaggccattt ataccctgg ctacagtgc tctctgatgt cctctgcaac aggaagcata attctgtgcc tcttcaggaa gctgcactgc accaggaatt acatccacct gaacctgtc ctgtccttca tctgagagc catctcagt ctggtcaagg acgacgttct ctactccagc	Homo sapiens
470	160040 Vasoactive Intestinal Polypeptide Receptor 2	NM_003382		Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggcacgt tgcactgccc tgaccagcca tcctcctggg tgggctgcaa gctgagcctg gtcttcctgc agtactgcat catggccaac ttctctctgc tgctggtgga ggggctctac ctccacaccc tctggtggc catgctccc cgttgatgga gttcctctgc ctactcctg atcgatggg gctctccac cgtctgcatc gttgcatgga ctgctggccag gctctactta gaagacaccc gttgctggga tacaacagac cacagtggc cctggtgggt catacgaata cagattttta ttccatcat cgtcaatttt gtccttttca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtggc ggcaacgacc agtctcagta caagaggtg gccaagtcca cgtctctgct tatcccgctg ttgctgctcc actacatggt gtttgcctg tttcccatca gcatctcttc caaataccag atactgtttg agctgtgctt cgggtcgtt caggccctgg tgggtggcct cctctactgt ttctgaaca gtgaggtgca gtgctgagctg aagcgaataat ggcaagccg gtgcccagc cgtcccgga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcggag ggcgccctgc agtccaccg cgcgtccgga gccagtctt tctgcaaac ggagacctg gtcatctagc cccacccctg cctgtcggac gcggcgggag gccacaggtt cggggcttct gcgggctga gacgccggtt tcctccttcc agatgccga gcacgtgtc gggcaggta gcgctgctt gactccgtca agctggtgtg ccactaaacc ccatacctgg</p>	Homo sapiens
472	160055 Motilin Receptor (GPR38)	NM_001507	<p>atgggcagcc cctggaacgg cagcgacggc cccgaggggg cgcgggagcc gccgtggccc A gcgtgccc cttgcgacga gcgcgctgc cgtgcttgc tcgccccttc cctggggggc gctggtgccg gtgaccgctg tgtgctgtg cctgttctgc gtcggggtga gcggcaacgt ggtgaccgtg atgctgatc ggctctaccg ggacatgccc accaccacca actgtacct gggcagcatg gccgtgtccg acctactcat cctgctggg ctcgcttctg accgtaccg cctctggcgc tcggggccct ggtgttctgg gccgtgctc gctgctgct cctctacgt gggcgagggc tgacactacg ccacgtgct gcacatgacc gcgctcagcg tcgagcgcta cctggccatc tgccgcccg tccgcgcgc cgtcttggt acccggcgc gcgtccgcgc gctcatcgct gtgctctggg ccgtggcgtt gctctctgc ggtcccttct tgttctctgt gggcgtcgag caggaccccg gcatctcgt agtcccggc ctcaatggca ccgcgggat cgcctcctcg cctctgctt cgtcgcgcgc tctctggctc tcgctggcgc caccgccgtc cccgccgtg gggcccagga ccgcggaggg cgcggcgctg ttacgcgcg aatgcggcc gagccccg cagctgggcy cgtgctgtt catgctgtg gtcaccaccg cctactctt cctgcccctt ctgtgctca gcatctcta cgggtctatc gggcgaggag tgtgagcag ccgcgggccg ctgagagggc cggccgcctc gggcggggag agaggccacc ggcagacgt ccgctctctg ctggtggtgg ttctggcatt tataatttgc tccacgttgg cagaatcatt tacataaaca cggaagattc gcggatgat tacttctctc agtactttaa catcgtcgt</p>	Homo sapiens

160055 Motilin
Receptor
(GPR38)

NP_001498.1

160055 Motilin
Receptor
(GPR38)

473

ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct catttcaaaag
aagtacagag cggcgccctt taaactgctg ctgcgaagga agtccaggcc gagaggcttc
cacagaagca gggacactgc gggggaagtt ctgagggaca ctgaggaga caggtgggc
tacaccgaga caagcgctaa cgtgaagacg atgggataa
MGSPWNGSDG PEGAREPPWP ALPPCDERRC SPFPLGALVP VTAVCLCLFV VGVSGNVVTV P
MLIGRYRDMR TTTNLYLGSN AVSDLLILG LPFDLYLWR SRPWVEGPLL CRLSLYVGE
CTYATLLHMT ALSVERYLAI CRPLRARVLV TRRRVALIA VLWAVALLSA GPFLFLVGE
QDPGISVVP GNGTARIASS PLASSPPLWL SRAPPPSPS GPETAEEAAL FSRECRPSPA
QLGALRVMLW VTTAYFFLPF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGHRTVRLV
LVVLAFIIC WLPFHVGRII YINTEDSRNM YFSQYFNIVA LQLFYLSASI NPILYNLISK
KYRAAFAFKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG

Homo
sapiens

NM_005303

160059 G Protein-
coupled
Receptor
GPR40

474

Homo
sapiens

atggacctgc ccccgagct ctcctcggc ctctatgtg cgcctttgc gctgggcttc A
ccgctcaacg tccctggccat ccgagcgcg acggcccaag cccggctccg tctacacct
agcctggctc agccctgaa cctgggtgc tccgacctg tctgacagt ctctctgcc
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aacacaccg tcaacggctc tccggtctg tttttctgc ccttggccat cacagcttc
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tgctacgtg gctgcctcg ggcactggc cgtccggcg tgacgcacag gcggaagctg
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aggggtcctg gctgaagac agtgtgtgc gcaagaacgc aagggggcaa gtcccagaag
taa

Homo
sapiens

NP_005294.1

160059 G Protein-
coupled
Receptor
GPR40

475

MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SLVYALNLGC SDLLTVSLP P
LKAVALASG AWPLPASLCP VFVAHFFPL YAGGGFLAAL SAGRYLGAAP PLGYQAFRRP
CYSWGVCAAI WALVCHLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG
PARFSLSLLL FFLPLAITAF CYVGLRALA RSLGTHRRKL RAAWVAGGAL LTLLLCVGPY
NASNVASFLY PNLGGSWRKL GLITAWSV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK
atgcacaccg tggctacgtc cggaccacaac cgcctcctgg gggaccggc caacgcctcc A
ggctgccccg gctgtgccc ccaagcctcg gacggcccag tccctcgcc gcgggcccgtg
gacgctggc tegtgcgct ctcttcgcg gcgtgatgc tgcctggcct ggtggggaac
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atcgccaaac tggcgggccac ggacgtgacc tctctcctgt gctgcgtccc ctccacggcc
ctgctgtacc cgtgcccgg ctgggtgctg ggcacttca tbtgcaagt cgtcaactac
atccagcagg tctcggtgca ggcacgtgt gccacttga cgcacatgag tgtggaccgc
tggtacgtga cgggtgtccc gttgcgcgc ctgcaccgc gcacggccc cctggcgctg
gctgtcagcc tcagcatctg gtaggctct gcggcggtg ctgcgcggt gctgcgctg

Homo
sapiens

NM_032551

160189 G Protein-
Coupled
Receptor
GPR54

476

Homo
sapiens

477	160189	G Protein- Coupled Receptor GPR54	NP_115940.1	caccgcctgt caccggggcc gcgcgcctac tgcaagtgaag ctttccccag ccgcgcctgt gagcgcgcct tcgcactgta caacctgctg gcgctgtacc tgctgcctgt gctgcgcacc tgccctgtct atgcggccat gctgcgcacc gctggccggg tcgcccgtgc ccccgccccc gccgatagcg cccgcagggg gcaggtgctg gcagagcgtg caggcccgct gcgggccaag gtctgcggcg tggtagcgcc cgtggctctg ctcttcgctg cctgtggggg ccccatccag ctgttcctgg tgcgcagcc gcggggccc gctggctcct ggacccacgc cagctacgcc gcctacgcgc ttaagacctg ggtcacctgc atgtcctaca gcaactccgc gctgaacccg ctgtctacg cttctctggg ctgcacttc cgacaggcct tcgcgcctgt ctgcccctgc gcgcgcgcgc gcccccgcgc ccccgccggg ccccgccccc cggacccccc agccccacac gcggagctgc accgcctggg gtcccccgcg gctggccccc gggccagaaa gccagggagc agtgggctgg ccgcgcgcgg gctgtgcctc ctgggggagg acaacgcccc tctctga	Homo sapiens
				SILVIVICRH KPMRTVNFY IANLAATDVT FLCCVPFTA LLYPLFGWVL GDFMCKFVNY IQQVSVQATC ATLITMSVDR WYTVFPLRA LHRRTPLAL AVSLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP ADSLQGGQVL AERAGAVRAK VSRLVAHVLL LLYAFLGSHE RQAFRRVCPG APRRRRPRR PGSPDPAAPH AYALKTWAHC MSYSNSALNP LLYAFLGSHE RQAFRRVCPG APRRRRPRR PGSPDPAAPH AELHRLGSHP APARQXPGS SGLAARGLCV LGEDNAPL	
478	160202	Adrenomedullin in Receptor (ADMR)	IG6564	CCGCGGCCAC GTGCGCTGCT GTGCGCGCCT ACCTGACGCG GCATTGTTCAT GCACTGGCTG A ACCTATCATG AGACCTGCTT GCTGCTCACA CTGATATGAA CCCACATCTG CCTACACTGC CACCTGGTAC CAATGCTCT ACTTCTTCTA TGATGTCTAT TGACTGTCTG TACATGCTAG ACTGCGCTAT TCACCGGATC CTTGACAACT TTATGACCCA GACTGCCGGG GCGGGCTGCC ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGGG GCACATGCGC CTCCTCTTCC TTCTGTGACA CCCAGCGTTA CATAATCAT ACCACGGGTG ATAGCCAGAC TGCTGCGAGC AACCGGCCAC CTTGACGCA AGCCTGAGCT TTCAGGCACA CCATTGCGTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGTGAGG T	Homo sapiens
479	160202	Adrenomedullin in Receptor (ADMR)	NM_007264	cagcctcctc acagctcccc atagcctgga cctgcccggc ctcctctccag gaccgagggg A ctcccaaggg aaactcaggc gtgtgctggt ccaaatgtca gtgaaaccca gctggggggc tgcccccctc gaggggtca ccgcagtgcc taccagtgc cttggagaga tccacaactg gaccgagctg cttgacctct tcaaccacac ttgtctgag tgccaactgg agctcagcca gagcaccagg cgcgtggtcc tctttgccc ctacctggcc atgtttgtgg ttgggctggt ggagaacctc ctggtgatat gcgtcaactg ggccggctca ggccgggagc ggctgatgaa cctctacatc ctcaacatgg ccctcgcgga cctgggcatc gtccgtcttc tgcccgtgtg gatgtggag gtacgctgg actacacctg gtctggggc agctctctc gccgcttcac tcaactcttc tactttgtca acatgtatag cagcatcttc tctctgtgtt gcctcagtgt cgaccgctat gtcacctca ccagcgcctc cccctcctgg cagcgttacc agcaccagat gcggcgggccc atgtgtgcag gcatctgggt cctctcggcc atcatccgc tgccctgaggt ggtccacatc cagctggtgg agggccctga gcccattgct ccttccatgg caccctttga aacgtacagc acctgggccc tggcggtggc gctgtccacc accatcctgg gcttctctgt gcccttccct ctcatcacag tcttcaatgt cctgacagcc tgccggctgc ggcagccagg acaacccaag agccgggccc actgcttct gctgtgccc tactgtgccc tctttgtcat	Homo sapiens

482	160204	G Protein-Coupled Receptor RTA	CAC39840.1	<p>cagccctect tgactgtgtc ccagccagca ccaggccagc agctcatcc ctgccattca</p> <p>gggctgttcc agagattcga tccctttaag gcattatcag tgagcaaatg tgaaggaaat</p> <p>ggtgtctgga agaaagtctt ggttcacatg ccttgtagct aagcttttct gcaacaacac</p> <p>tcccttcccc ccgtcgagtc atttggtgac tttgatggg ggaattcttg ttatgtcaag</p> <p>gctctggaga caggaaggcc ctttgccgc cttgggtagt tgacctgctc ttctgactc</p> <p>cgggacagc cagtcctagg ctgctcccg gagccttga ggtatcccg aggccatgag</p> <p>gacccactgg gcagctctg gacagctct tggctccag cccacccga aagtggacac</p> <p>tggctccgcc ctggccacct ggggactgg acgtggtgc acagtggccc aatgtggcca</p> <p>acggaagttt tataaagac aaaaagtata tcaataaaca tttataact tgc</p> <p>MAGNCSWEAH PGNRNRCPG LSEAPELYSR GFLTIEQIAM LPPAVMYI FLLCLCLV P</p> <p>GNGLVWFFG FSIKRNFFSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR</p> <p>VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVVCALLWVL SLLVTCLHNY</p> <p>FCVFLGRGAP GAACRHMDIF LGILLFLCC PIMVLPCLAL ILHVECRARR QRSAKLNHV</p> <p>ILAMVSVFLV SSIYLGIDWF LEWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ</p> <p>RLWEPLRVVF QRALRDGAEI GEAGGSTPNT VTMEMQCPPG NAS</p> <p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcacactgg ggtcctgaca A</p> <p>cgtgatcgct cttgttcag gaagatgaac tcttcggga tctgctgcca ttgctgctga ggaggtggg</p> <p>tccctccgcc cactgactgt ggtatcctg tctgctgcca ttgctgctga agtctgggc</p> <p>aatgggctgg tctgtggat gactgtctt cgtatggcac gcacgtctc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcatg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagt gctcctcga gactgggct gcaaacctca catcacctt</p> <p>gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctgtt ggaccgttgc</p> <p>atctctgtcc tctacccctg ctggccctg aaccacgca cctgtcagcg ggcgagctgg</p> <p>ctggcccttg ggtgtggct cctggccgc ccttctgtct ctgcgacct gaaattccgg</p> <p>acaaccagaa aatgggaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac</p> <p>ttctgtctgg gcttcttggg gcccttagca atcataggca cctgcgcca cctcatccgg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagaggct gctgctggtg</p> <p>ctggtgagcg ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg</p> <p>tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct</p> <p>agcttgcct tgggtgtgt tccacagc ctaaacccct tccctacgt cttcgttggc</p> <p>agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga</p> <p>gagagaggat ttctgtcat ctgtccctg gcaacgccc cccgggaatg a</p> <p>MNGVSEGTG CSDRQGVLT RDRSCSRKN SSGCLSEEVG SLRPLTVIL SASIVGVLG P</p> <p>NGVLWMTVF RMARTVSTVC FFHLALADEM ISLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TTRXWNGCTH CYLAFNDSNE TAQIWIEGVV EGHIGTIGH FLGLGFLGFLA IIGTCAHLIR</p> <p>AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagctccct cttccacctc tgtctgccc tgcctcttgc tctagctgt gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtct cctctgtgcc cagagcccca cgatgtcggc</p>	Homo sapiens
483	160206	G Protein-Coupled Receptor GPR32	NM_001506	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcacactgg ggtcctgaca A</p> <p>cgtgatcgct cttgttcag gaagatgaac tcttcggga tctgctgcca ttgctgctga ggaggtggg</p> <p>tccctccgcc cactgactgt ggtatcctg tctgctgcca ttgctgctga agtctgggc</p> <p>aatgggctgg tctgtggat gactgtctt cgtatggcac gcacgtctc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcatg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagt gctcctcga gactgggct gcaaacctca catcacctt</p> <p>gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctgtt ggaccgttgc</p> <p>atctctgtcc tctacccctg ctggccctg aaccacgca cctgtcagcg ggcgagctgg</p> <p>ctggcccttg ggtgtggct cctggccgc ccttctgtct ctgcgacct gaaattccgg</p> <p>acaaccagaa aatgggaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac</p> <p>ttctgtctgg gcttcttggg gcccttagca atcataggca cctgcgcca cctcatccgg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagaggct gctgctggtg</p> <p>ctggtgagcg ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg</p> <p>tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct</p> <p>agcttgcct tgggtgtgt tccacagc ctaaacccct tccctacgt cttcgttggc</p> <p>agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga</p> <p>gagagaggat ttctgtcat ctgtccctg gcaacgccc cccgggaatg a</p> <p>MNGVSEGTG CSDRQGVLT RDRSCSRKN SSGCLSEEVG SLRPLTVIL SASIVGVLG P</p> <p>NGVLWMTVF RMARTVSTVC FFHLALADEM ISLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TTRXWNGCTH CYLAFNDSNE TAQIWIEGVV EGHIGTIGH FLGLGFLGFLA IIGTCAHLIR</p> <p>AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagctccct cttccacctc tgtctgccc tgcctcttgc tctagctgt gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtct cctctgtgcc cagagcccca cgatgtcggc</p>	Homo sapiens
484	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcacactgg ggtcctgaca A</p> <p>cgtgatcgct cttgttcag gaagatgaac tcttcggga tctgctgcca ttgctgctga ggaggtggg</p> <p>tccctccgcc cactgactgt ggtatcctg tctgctgcca ttgctgctga agtctgggc</p> <p>aatgggctgg tctgtggat gactgtctt cgtatggcac gcacgtctc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcatg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagt gctcctcga gactgggct gcaaacctca catcacctt</p> <p>gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctgtt ggaccgttgc</p> <p>atctctgtcc tctacccctg ctggccctg aaccacgca cctgtcagcg ggcgagctgg</p> <p>ctggcccttg ggtgtggct cctggccgc ccttctgtct ctgcgacct gaaattccgg</p> <p>acaaccagaa aatgggaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac</p> <p>ttctgtctgg gcttcttggg gcccttagca atcataggca cctgcgcca cctcatccgg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagaggct gctgctggtg</p> <p>ctggtgagcg ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg</p> <p>tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct</p> <p>agcttgcct tgggtgtgt tccacagc ctaaacccct tccctacgt cttcgttggc</p> <p>agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga</p> <p>gagagaggat ttctgtcat ctgtccctg gcaacgccc cccgggaatg a</p> <p>MNGVSEGTG CSDRQGVLT RDRSCSRKN SSGCLSEEVG SLRPLTVIL SASIVGVLG P</p> <p>NGVLWMTVF RMARTVSTVC FFHLALADEM ISLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TTRXWNGCTH CYLAFNDSNE TAQIWIEGVV EGHIGTIGH FLGLGFLGFLA IIGTCAHLIR</p> <p>AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagctccct cttccacctc tgtctgccc tgcctcttgc tctagctgt gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtct cctctgtgcc cagagcccca cgatgtcggc</p>	Homo sapiens
485	160210	G Protein-Coupled	NM_004778	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcacactgg ggtcctgaca A</p> <p>cgtgatcgct cttgttcag gaagatgaac tcttcggga tctgctgcca ttgctgctga ggaggtggg</p> <p>tccctccgcc cactgactgt ggtatcctg tctgctgcca ttgctgctga agtctgggc</p> <p>aatgggctgg tctgtggat gactgtctt cgtatggcac gcacgtctc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcatg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagt gctcctcga gactgggct gcaaacctca catcacctt</p> <p>gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctgtt ggaccgttgc</p> <p>atctctgtcc tctacccctg ctggccctg aaccacgca cctgtcagcg ggcgagctgg</p> <p>ctggcccttg ggtgtggct cctggccgc ccttctgtct ctgcgacct gaaattccgg</p> <p>acaaccagaa aatgggaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac</p> <p>ttctgtctgg gcttcttggg gcccttagca atcataggca cctgcgcca cctcatccgg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagaggct gctgctggtg</p> <p>ctggtgagcg ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg</p> <p>tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct</p> <p>agcttgcct tgggtgtgt tccacagc ctaaacccct tccctacgt cttcgttggc</p> <p>agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga</p> <p>gagagaggat ttctgtcat ctgtccctg gcaacgccc cccgggaatg a</p> <p>MNGVSEGTG CSDRQGVLT RDRSCSRKN SSGCLSEEVG SLRPLTVIL SASIVGVLG P</p> <p>NGVLWMTVF RMARTVSTVC FFHLALADEM ISLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TTRXWNGCTH CYLAFNDSNE TAQIWIEGVV EGHIGTIGH FLGLGFLGFLA IIGTCAHLIR</p> <p>AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagctccct cttccacctc tgtctgccc tgcctcttgc tctagctgt gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtct cctctgtgcc cagagcccca cgatgtcggc</p>	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgccccat cctggagcag atgagccgctc tccagagcca
cagcaaacac agcatccgct acatcgacca cgcggcccgctg ctgctgcacg ggcctgccc
gctgctgggc ctggtggaga atggagtcac cctcttcgtg gtgggctgcc gcatgcgcca
gaccgtgggc accacctggg tgcctgacac ggcgctgtcc gacctgttgg cctctgcttc
cctgcccctc ttacactact tcttgccgct gggccacttc tgggagctgg gcaccactt
ctgcaaaactg cactctcca tcttcttctt caacatcttc gccagcggct tctgctcag
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caccgtggcc gcggcgaca aagctcgctt ggtgctttgg gactagcgg tgctcaaac
ggtgcccctat ttctgtgtcc gggacacct ctgcggctg gacggggcgca ttatgtgcta
ctacaatgtg ctgctcctga acccggggc tgaccgcgat gccacgtgca actcgcgcca
ggcgccctg gccgtcagca agttcctgct ggccttcctg gtgcgctgg cgatcatcgc
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ggagagcgtg ctggtggagc acagcagct ggggtggcgc ggaagcagcc gccgcgcgcg
cacctcctcc accgcccgcct cggcctcccc tttagctctc tgcagccgccc cggaggaacc
gcggggcccc gcgctctcc tgcgtgctg gctggggcag tgcgcagcgt cccgcagac
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gcactcacac cgaaggtat caccagggtg gggcggggac ccaggacact gcattttaa
cgcagtgat caagtccga aaagctgggac cgaagcactt gcttctcaaa cgtgctgctg
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cctgtgaatc acctagggtt ctgttaagt gcaagtgcgt ccaggaggcc gggcccggt
actgagagtc tgcaactaac aagctcccg agtgaacct gtaatagact tcccactta
cgaggccctg agtaacaaa agtgaacct gtaatagact tcccactta gggcagtgga
gtcgggaagg cacacgggtt gcgtctccc ggaagttcagt ttaccagat gatggggag
gggggaagg gttttatgt aaaccatcca tgtatttttg gagaagagag aggaagggtt
tgagaagcac tgtccagcc tgcctcttc attagccaa tgcctactgc gtagacgct
tcattccaca atcttaagg gcagcttcta ttaccagctg agcacattct
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ctaaccctag gcatcacatg ctcaatgact cctcgtgtgag cgaggacatt ctctgacct
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aagcagcagg ggtggcgctg gtcaagcact cgggaaacct ggggctaact aaatccaatg
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atcactcca ctgaccccc tctcattcct tctcattcct tggacttggg gtacagagact
gctgtgtttg agctctgca cccagggacc gaaaagtgg tgtcaatgaa ttttgccttg
tggatgaaat gtcagtggaa gaagcagatg agaaactctt gagatcttgg tctgtgttt

486	160210 G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	MSANATLKPL MRQTVTTWV LLSAISLDR MCYNNVLLN PGRFVRLVAA PVLYVLTCPD EEPGRPARLL atgaatgaat gcgtccgagc atcttcgaga gttatctttg cagacgatgg ctctccact atctcagttc ctgcagtaaa tgcattattt gggaacacct gcctatttta ttcacctact agagcccgat cgtcgcctac tatataattt ttaacaacct acggcggtt tgtgtgaagg attga	MSANATLKPL MRQTVTTWV LLSAISLDR MCYNNVLLN PGRFVRLVAA PVLYVLTCPD EEPGRPARLL atgaatgaat gcgtccgagc atcttcgaga gttatctttg cagacgatgg ctctccact atctcagttc ctgcagtaaa tgcattattt gggaacacct gcctatttta ttcacctact agagcccgat cgtcgcctac tatataattt ttaacaacct acggcggtt tgtgtgaagg attga	QSHSNTSIRY IDHAAVLLHG LASLILGIVEN TTFCKLHSSI LNTVPYFVFR IIASSHAAVS LRLQHRGRRR RAHANPGLRP LVWRGLPEVT SLAFFNSVAN RRTTSSTARS ASPLALCSRP SSTS	GVILFVVGCR P FFLNMFASGF DTISRLDGR I LRLQHRGRRR SLAFFNSVAN ASPLALCSRP SSTS	Homo sapiens
487	160212 G Protein-Coupled Receptor GPR52	NM_005684	atgaatgaat gcgtccgagc atcttcgaga gttatctttg cagacgatgg ctctccact atctcagttc ctgcagtaaa tgcattattt gggaacacct gcctatttta ttcacctact agagcccgat cgtcgcctac tatataattt ttaacaacct acggcggtt tgtgtgaagg attga	atgaatgaat gcgtccgagc atcttcgaga gttatctttg cagacgatgg ctctccact atctcagttc ctgcagtaaa tgcattattt gggaacacct gcctatttta ttcacctact agagcccgat cgtcgcctac tatataattt ttaacaacct acggcggtt tgtgtgaagg attga	tgagcagtggtt acagtgtggt ttattgtctgg gaatctaaca ttactaccag ctatttcatt gcttggttcc tactctgtca gccgggtttt tggatatatc gcatcagttg ggtcagttat tgccttctct ccttggtctg cttgagaatt ttttggctgg ccaactgttg gtcaccagt gtcaccagt	cattgtgaat A ggtgtgtctg gaatctaaca ctatttcatt tactctgtca tggatatatc ggtcagttat tgccttctct ccttggtctg cttgagaatt ttttggctgg ccaactgttg gtcaccagt gtcaccagt	Homo sapiens
488	160212 G Protein-Coupled Receptor GPR52	NP_005675.1	MNESRWTEWR VIFAFHCAPL ISVLKSVSMA GKPGYHGDIF RARFPSHEVD LTTWLAVSNS I	MNESRWTEWR VIFAFHCAPL ISVLKSVSMA GKPGYHGDIF RARFPSHEVD LTTWLAVSNS I	FGHYSWVDVC LLHYSTGVHE CIILIIWYSC FTYFHIFKIC YIIYFLESS CVKQDQAEQP	IFETVVIVLL SLTCRVFGYI LIFLPSFFGW RQHTKEINOR RVLDNPTLSF KPRKRANSCS	Homo sapiens
489	160217 G Protein-Coupled	NM_005683	atgagtcagc accctacagt	atgagtcagc accctacagt	tggtgactgc catccccacc ttcgtcctgg gctgtcctc	gtgtcaacga gctgatgaaa caacctgctg	Homo sapiens

Receptor GPR55	160217	G Protein- Coupled Receptor GPR55	NP_005674.1	gcatcatg gcttcagcac ctctcctaag aacagtggtgc ccgattatgc tgcacactcc atctacatga tcaacctggc agtctttgac ctgtctgtgc tgcctctccc cccattcaag atggtcctgt ccaggtaca gtcccccttc ccgtccctgt gcacctggt ggagtgcctt tacttcgtca gcatgtacgg aagcgtcttc accatctgct tcatcagcat ggaccggttc ttgccaatcc gttaccgct actggtgagc cactccggtc cccaggaag atctttggga tctgcatgca caatctgggt ctggtgtggt accggaagca tccatatcta cagtttccat gggaaagtgg aaaaatacat gtgcttccac aacatgtctg atgataacct gagcgccaa gtcttcttcc cgctggaggt gtttggtctc ctcttccca tgggcatcat gggcttctgc tgctccagga gcatccacat ctgctggggc cgccagagcc acacccagga ctgggtgcag cagaaagcct gcatctacag catgcagcc agcctgggtg tattctgtgt ctcttcttc ccagtcacc tgggttctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaagc agagcatcag ctcttctctg caattgtcca tgtgttctc caatgtcaac tgctgcctgg atgtttctg ctactactt gtcatcaag gtatcccat gaacatcagg gcccaacggc ctccaggtt ccagctgtgtc ctgcaggaca caacgatctc cggggctaa MSQNTSGDC LFDGVNELMK TIQFAVHIPT FVLGLLLNL AIHGFSTFLK NRWPDYAATS P IYMINLAVFD LLLVLSLPEK MVLSQVQSPF PSLCTLVECL YFVSMYGSVF TICFISMDRF LAIRYPLLV HSGPPGRSLG SACTIWWLVW TGSIRIYSFH GKVEKYMCFH NMSDDTWSAK VFFPLEVFGF LLPMGIMGFC CSRSIHILLG RRDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVNRNSFIVEC RAKQSISEFL QLSMCFSNVN CCLDVFCYYF VIKFERMNR AHRPSRVQLV LQDTTISR										Homo sapiens																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

493	160221	G Protein-Coupled Receptor GPR27	NM_018971	QDSLCVTLA	atggcgaacg cgagcgagcc ggggtggcagc ggcggcgccg agcgggccgc cctggggcctc A	Homo sapiens
					aagctggcca cgctcagcct gctgctgtgc gtgagccctag cgggcaacgt gctgttcgcg	
					ctgctgatcg tgcgggagcg cagcctgcac cgcgccccgt actacctgct gctcgacctg	
					tgcctggccg acgggctgcg ggcgctcgcg tgcctcccg cctcatgct ggcggcgccg	
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					aactggacgg cgggcttcgg ccgcggccc acgcgcgcg cgttgttggg catccggccc	
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					aggctgtgca agatgttcta cgcgctcacg ctgctcttcc tgcctctcg gggccccctac	
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					acggcctccg tgtggctgac cttcgcgcg gccggcatca acccgctcgt gtgcttccc	
					ttcaacaggg agctgaggga ctgcttcagg gccagttcc cctgctgcca gagcccccg	
					accacccagg cgaccatcc ctgcgacctg aaaggcattg gttatga	
494	160221	G Protein-Coupled Receptor GPR27	NP_061844.1	MANASEPGGS GGGEAAALGL KLATLSLLC VSLAGNVLFA LLIVRERSLH RAPIYLLLDL P	Homo sapiens	
				CILADGLRALA CLPAMLAAR RAAAAGAPP GALGCKLLAF LAALFCFHAA FLLLVGVTR		
				YLAIHHRFY AERLAGWPCA AMLVCAAWAL ALAAFPFVL DGGGDEEDAP CALEQRPDGA		
				PGALGFLLL AVVVGATHLV YLRLLFFIHD RRMKRPARLV PAVSHDWFH GPGATGQAAA		
				NWTAGFGRGP TTPALVGIRP AGPGRGARL LVLEEFKTEK RLCKMFYAVT LLFLLWGPY		
				VVASYLRLV RPAVPOAYL TASVWLTFQA AGINPVVCFI FNRELRDCFR AQFPCCQSPR		
				TTQATHPCDL KGIGL		
495	160222	G Protein-Coupled Receptor GPR72	NM_016540		atggttccctc acctctgtct gctctgtctc ctcccccttg tgcgagccac cgagccccac A	Homo sapiens
					gagggccggg ccgacgagca gagcgcgag ggcggccctgg ccgtgcccc tgcctcgcc	
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					ttggccacct tcactctgt ctacatctg cccctcctca tcactctgtt ggcctacgct	

496

160222 G Protein-
Coupled
Receptor
GPR72

NP_057624.1

Homo
sapiens

cgtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtag
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 agcatgtgtc aaagacctcc caagcctcag gagcacgggc aacctcccc agttccttcc
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 aggtgtagg actcttgaat tctaggaaa ctgtccagcc tcttagcccc atgtgatgtg
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 cagagctctg cttgaacacg gtacacgggc cagggaaatg ccagcaa
 MYPHLLLLCL LPLVRAEPH EGRADEQSAE AALAVPNASH FFSNNYTF DWQNFVGRRR P
 YGAESQNTV KALLIVAYSF IIVFSLFQNV LVCHVIFKQ RMHSATSLFI VNLAVADIMI
 TLINTPFTLV RFVNSTWIFG KGMCHVSREA QYCSLHVSAL TLTAIAVDRH QVIMHPLKPR
 ISITKGVIYI AVIWNATFF SLPHAIQKL FTEKSEDIY RSLCLDPPE PADLFWKYLD
 LATFILLIYL PLLIISVAYA RVAKKLWLCN MIGDVTTEQY FALRRKKKKT IKMLMLVVVL
 FALCWFLNC YVLLLSKVI RTNNALYFAF HWFAMSTCY NPFIYCWLE NFRIELKALL
 SMCQRPPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANL LPTSQIQSGK TDLSSVEPIV
 TMS

497

160223 G Protein-
Coupled
Receptor G2A

NM_013345

Homo
sapiens

ggagggggtg cgaggctagc cagcaggcg gggccctggg tcattttaa ctctcagagt A
 gaacgtcttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc
 cacactgaga ttggaacccg caaaatatgc caggagaggaa ggtgagcaag ggacacgaca
 ctccccgga taaacccaac aagcgacgc aggtgtgtgg gaaacccgan ccctgcacac
 cgccggggga aggtggggcn ccgccaccac cgtggaagaa cagcgcggan gcacccacg
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 aataccatcc cgcctttgaa aggaaggaa atcctggcac acgtgcaac aggagggagc
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 gtttggggaag atgagaaggt tctgccgacg atgtgtggcg atgtgtcag aagaatgtga
 atgtgccccaa tgctactgaa aaacggttac atggaaacg ccacccagc gaccaccact
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498	160223	G Protein-Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tcttggtcgt ggtgtacagc gcggtgtgca cgtggggggg gccgggccaac</p> <p>tgcctgactg cgtggctggc gctgctgcag gtactgcagg gcaacgtgct ggcgctctac</p> <p>ctgctctgcc tggcaactctg cgagctgctg tacacaggca cgtgccact ctgggtcctac</p> <p>tatatccga accagaccg ctggacccta ggcctgctgg cctgcaaggt gaccgcctac</p> <p>atcttcttct gcaacatcta cgtcagcatt ccttctctgt gctgcatctc ctgcgaccgc</p> <p>ttcgtggccg tgggtacgc gctggagagt cggggccgcg gcccgaggag gaccgccatc</p> <p>ctcatctccg cctgcatctt catcctcgtc gggatcgttc actaccgggt gtccagagac</p> <p>gaagacaag agactgctt tgacatgctg cagatggaca gcagattgc cgggtactac</p> <p>tacgccagggt tcacggttgg ctttgccatc cctctctcca tcctgcctt caccacccac</p> <p>cggattttca ggagcatcaa gcagagcatg ggcttaagcg ctgcccagaa ggccaagggtg</p> <p>aagcactcgg ccctcgcggt ggttgctcct ggttgctcct gcttgcccc gtaccacctg</p> <p>gttctcctcg tcaagccgc tgccttttcc tactacagag gagacaggaa cgccatgtgc</p> <p>ggcttgagg aaaggctgta cacagcctct gtggtgttct tgtgctgtc caggtgaac</p> <p>ggcgtggctg acccattat ctacgtgctg gccacggacc attcccgcca agaagtgtcc</p> <p>agaatccata aggggtggaa agagtgtcc atgaagacag acgtcaccag gctcaccac</p> <p>agcagggaca ccgaggagct gcagtcgcc gtggccttg cagaccata cacttctcc</p> <p>agggccctgc accaccagg gtcaccatgc cctgcaaga ggcctgattga ggagtcctgc</p> <p>tgaagccact gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt</p> <p>cctgtgact gagccacca gccacagtgc ccatgtcccc tctggaagac aaactaccaa</p> <p>tttctcgttc ctgaagccac tccctccgtg accactggcc ccangctttc ccacatggaa</p> <p>ggtggctgca tgccaagggg aagagcgaca cctccaggct tccggagacc canagagcat</p> <p>gtggcangca gtggggcctc ttcatactca nccgtcctgg cttgctctcct tggtgtggtg</p> <p>cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcctc agtggcgatg</p> <p>actttatttg cggagcattt ctgcaagcgt tgcctggatg cgggtgtgca ttgtgggccc</p> <p>tctgggctcc tgcctcaaaa tgtcagtgag caccatgctg gaagtacca tcactgtggc</p> <p>agcgccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg</p> <p>ggttggtg</p>	Homo sapiens
499	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	NM_004767	<p>CLTAWLALLQ VLQGNVLAVY LLCLALCELL YTGTLPLMWI YIRNQHRWTL GLLACKVTAY</p> <p>IFFCNIYVSI LFLCCISCDR FVAVVYALES RGRRRRTAI LISACIFILV GIVHYPVFQT</p> <p>EDKETCFDML QMDSRIAGY YARFTVGFAI PLSIIAFTNH RIFRSIKQSM GLSAAQKAKV</p> <p>KHSAIAVVI FLVCFAPYHL VLLVKAASF YRGDRNAMC GLEERLYTAS VFELCLSTVN</p> <p>GVADPIIYVL ATDHSRQEVs RHHGWKEWS MKTDVTRLTH SRDTEELQSP VALADHYTFS</p> <p>RPVHPFGSPC PAKRLIEESC</p> <p>cgggtacagg gggcccaaga gctgggctgg ctgctctctg ctcatccagc catgcggtgg A</p> <p>ctgtggcccc tggctgtctc tcttgctgtg attttgctg tggggctaag cagggtctct</p> <p>gggggtgccc cctgcacct gggcaggcac agagccgaga cccaggagca gcagagccga</p> <p>tccaagagg gcaccgagga tgaggaggcc aagggcgtgc agcagtatgt gcctgaggag</p> <p>tggcgaggat acccccggcc cattcacct gctggcctgc agccaaccaa gcccttggg</p> <p>gccaccagcc ctaaccccga caaggatggg ggcacccccc acagtgggca ggaactgagg</p> <p>ggcaatctga cagggggcacc agggcagagg ctacagatcc agaaccctt gtatccgggtg</p>	Homo sapiens

500	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	MRWLWPLAVS PEEWAEPYRP YPVTESSYSA FFCLPIVIFN PIERCQSILA LVMTYQNARM WVGLTVVYAF RPLGQAFDLC C	LAVILAVGLS IHPAGLQPTK YAIMLLALV EITKQRLDGD KLAVIVWGS WVYFGYFCL CTLPENVCNI CCCCCEECG	RVSGGAPLHL PLVATSPNPD FVAGIVGNLS VSCRVPFME TIAVPELLW PILEFVTCQL WAYLSTELT GASEASAANG	GRHRAETQEQ KDGTPDSGQ VMCIVWHSY VSSLGVTTF QLAQEPAPTM VTWRVRGPPG RQTLDLGLI NQSTFFKGA SSIYFHKPRE	QSRSKRGTE ELRNLITGAP LKSANWSILA LCAIGIDRFH GTLDSKIMKP RKSECRASKH EQCESQLNST ITPVLLLCIC SPPLLPLGTP	Homo sapiens
501	160225	Sphingolipid Receptor Edg6	NM_003775	gagtcagccc ccaacagctg ccggctggcc ggctggccgc ccacatgcgg gctcacgggc ggcgcgcgc cttcagccctg gagcggggcc cgcgctgctg ctccagcctt	ccgggggagg gcgcgcggcg ggcgcgggg agctgcctgg tcgcgacgt gggcctacc cagtggttcc cgtttcaactg accaagacca gggatgctgc ctgcctctct	ccatgaacgc ggcacagccg ggcggaggga tggctgctga gggtctacta tggccaaagt tacgggagg caggggagcg ccgcgctcta cttgcctggg actccaagcg	cacggggacc gctcattgtt tggcgccctg gaactgctg ttgcctgggt gctgctgtcg ctgtctcttc cttgccacc cggcctcta ctggaactgc ctacatcctc	ccggtggccc ctgcaactaca ggggccctgc gtgctggcgg aacatcacgc ggggcccgca acgcctccac atggtggcga ggcctctgct gtgacgcct ttctgcctgg	Homo sapiens

502	160225	Sphingolipid NP_003766.1	Receptor Edg6	<p> cggcgctctg gccaccatca tgggcctcta tggggcccatc ttcgcctgg tgcaggccag cgggcagaag gccccacgcc cagcgcccg ccgcaaggcc cgcgcctgc tgaagacggt gctgatgatc ctgctggcct tcttggtgtg ctggggccca ctcttcgggc tctgctggc cgacgtcttt ggctccaacc tctgggcccc ggagtacctg cggggcatgg actggatcct ggccctggcc gtcctcaact cggcggtcaa ccccatcatc tactccttc gcagcaggga gggtgacaga gcttggtctc gcttcctctg tctcggtgtg ctcggctggg gcacgcgag gcccggggac tgcctggccc ggccctcgca ggtcactcc ggagcttcca ccaccgacag ctctctgagg ccaagggaca gctttcgcg gctccgctcg ctcagctttc ggatgcggga gcccctgtcc agcatctcca gctgcggag catctgaagt tgcagtcttg cgtgtggatg gtgcagccac cgggtgcgtg ccaggcagg cctcctgggg tacaggaagc tgtgtgcacg cagcctcgcc tgtatgggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaa gaggtaacca ccccacctcc cgttaggagc agagagcacc ctggtgtggg ggcgagtgggt tccccacaac ccgcctctcg tgtgattctg gggaagtccc ggcctctc tgggcctcag tagggctccc aggctgcaag ggttgactg tgggatgcat gccctggcaa cattgaagt cgtatcattggt aaaaa </p>	Homo sapiens
503	160228	T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p> VLENLLVLA ITSHMRSRW VYCLVNITL SDLLTGAAYL ANVLISGART FRLAPAQWFL REGLLEFALA ASTFSLFTA GERFATMVRP VAESGATKTS RVYGFGLCW LLAALLGMLP LLGNCLCAF DRCSSLLPLY SKRYILFCLV IFAGVLATIM GLYGAIFRLV QASGQKAPRP AARRKARLL KTVLMILLAF LVCWGFLFGL LLADVFGSNL WAQEYLRGMD WILALAVLNS AVNPITYSFR SREVCRAVLS FLCGCLRLG MRGPGDCLAR AVEAHSGAST TDSSLRPRDS FRGSRSLFR MREPLSSISS VRSI </p> <p> atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccatttgtt A tacatctttg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtctttc ctgcaaccga agaaggaaag tgaactagga atttacctct tcagtctgtc actatcagat ttactctatg cattaactct cctttatgg atgtattata ctggaataa agacaactgg actttctctc ctgccttctg caaaggaggt gcttttctca tgtacatgaa gttttacagc agcacagcat tccctacctg cattgccgtt gatcggtatt tggctgttgt ctacctttg aagttttttt tccaaaggac aagaagaatt gcactcatgg tcagcctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagtgtg tgaatattgc gatgccgaaa agtctaatth tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca actgtttcag gacgtgtaca ggttatgcaa taccttttgt caccatctctg atctgtaacc ggaagtcta ccaagctgtg cggcacataa aagccacgga aaacaaggaa aagaagagaa tcataaaact actgtcagc atcacagtta ctttgtctt atgctttact ccctttcatg tgaatgttgt gattcgtgc attttagagc atgctgtgaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atgtatagaa tcacggttgc attaacaagt ttaaatgtg ttgctgatcc aattctgtac tgttttgtta ccgaacacag aagatatgat atgtggaata tattaaaatt ctgcactggg aggtgtataa catcacaag acaagaagaa cgcatacttt ctgtgtctac aaagatact atggaattag aggtccttga gtag </p>	Homo sapiens

[illegible]

506	160300	Encephalopsi n	NP_055137.1	MYSGNRSGGH LVLVLYXKQ GSLFGIVSIA LDVHGLGTV IQVIKILXE NTVYNPIYV KKKVTNSSF	GYWDGGAAG. RLRTPHLLL IRVVHARVIN DWKSKDANDS KKLAKMCFLM FMIRKFRSL IIFIITNSSF	AEGPAPAGTL VNISLSDLLV FSWAWRAITH SFVLFFLGC IFTFLVCWMP LQLLCLRLR LSVDDSDKTI	SPAPLFSPGT SLEGVTFTEV FSWAWRAITH YIVPLGVIAH LVVICFLVNV QORPAKDLPA GVQSLMLIQV	YERLALLLGS SCLRNGWVWD IWLYSLAWAG CYGHILYSIR GHGHLVTPTI AGSEMQIRPI RPL	IGLLGVGNL P TVGCVWDGFS APLLGWNRYI MLRCVEDLQT SIVSYLFAKS VMSQKGDGRP	Homo sapiens
507	160312	Sphingolipid Receptor Edg5	NM_004230	atgggcagct accaaagaga gtcatcctct aacagcaagt ctggcaggcg acgcctgtgc ttcagcctcc ggcagcgaca gtcctcggtg actgtcctgc atcctgttgg gctgacatgg gtctttatcg gtccactcct tcctgtctca cgcccgctgc cgggccacc ccacgctcac	tgctactcga cgctggaac gttgcgccat tccactcggc tggccttcgt agtgttttgc tggccatcgc agagctgcg gcctgcccac ctctctacgc ccatgtggc cgcgcccgca tctgtggct gcccgatcct accccgtcac agtgtggcg acctcctgcc ccacgtttct	gtacctgaac gcaggagacg tgtgttgaaa aatgtacctg agccaatacc ccgggagggc cattgagcgc catgtcttctg ccttggctgg cctgtgcttc caagcattat cctgtacgtg gacgctagcc tctgtggct cctgccttc ctacacgtgg gcccggggtg actccgcagc ggagggcaac	cccaacaagg acctcccgcc aaccttctgg tttctgggca tctgtctctg tcgtcctcca ttgccaaagt cacgtggcca ctcatcgggg aactgcctgg gtgtgtggcg cgcatctact ctgtctaaaga agcactcctc tctcgactca cactactttt cgagccggg ggggtgcaag tccagctccc acggtggtct	tgccaggaaca aggctggcctc tgctcattgc acctggcgcg ctcctgtcac tgctgtctgc tgccaaagt cacgtggcct cctcgtggct gccacctcga tggtgacct tgctggacta tgccgttccc tgcccgctc acgtcggcg gacggaggcg tggagagggg ga	ctataattat A ggccttcac ggtggcccg ctccgatcta gctgagcgtg tcacgtctc caagctgtat catctcgctg ggcctgtctc tggtgacct tgctggacta tgccgttccc tgcccgctc ggaggtgctt gacggaggcg tggagagggg catgcacatg	Homo sapiens
508	160312	Sphingolipid Receptor Edg5	NP_004221.1	MGSLYSEYIN NSKFHSAMYL FSLLAIAIER TVLPLYAKHY VFIVCWLPAP	PNKVQEHYNY FLGNLAASDL HVIAIKVKLY VLCVVTIFSI SILLDDYACP	TKETLETQET LAGVAFVANT GSDKSCRMLL ILLAIVALYV VHSCPILYKA	TSRQVASAFI ILSGSVTLRL LIGASWLISL RIYCVVRSRH HYFFAVSTLN	VILCCAIVE TPVQWFAREG NCLGHLEACS ADMAAPQTLA SLLNPVIYTW	NLIVLIAVAR P SASITLSASV NLGHLEACS LLKTVTIVLG RSRDLRREVL TV	Homo sapiens
509	160314	G Protein-Coupled Receptor GPR103	AF411117	atgatctgct ggcattgtgat gcccactgcg acagcaatgc aacctgacgc gagctgccgg gcactctttg gtcaccacaaca	gcagtgctct tagcaaaactc ggggaaaatg aggcgcttaa ggagacagct gacgcgccaa gcaatgctct tccttatctg	gagccctagg atcacctagac taggcgcctg cattaccctc catcgctctg gctggccctc gtgtttctac ctccttggcg	attcatcttt atcgctactac cattgcggtg gagcagttct taccgctgc tgctcaccc gtgttgacct ctcagtgacc	cttttcaccc acgacacgta gccccgcgtc ctcggtctgt gaccgctcgt gcgtgctcat gtgtgacct tgtctcatc	tagcctgact A ctacgttgta ccgggagcgc gcgggaccac ctacacccca cttcgcctcg catgcgcacc catgcgcacc tgtctcatc	Homo sapiens

510	160314	G Protein- Coupled Receptor GPR103	ENSMPT2217 53	attcccgtca ccattgctcca gaacatttcc gaaaactggc tgggggggtgc tttcatttgc aagatgggtgc cattgtgcca gtctaccgt gtgtgacag aaatcctcac tatgacctgc attgctgtgg aaaggcacca gggacttgtg catcctttta aaatgaagt gcaatacacc aaccgaagg ctttcacaat gctagggtgtg gtctggctgg tggcagtcac cgtaggatca cccatgtgg acgtgcaaca acttgagatc aaatatgact tctatatga aaaggaaacac atctgtgct tagaagagt gaccagccct gtgcaccaga agatctacac caccctcatc ctgtcatcct tctcctcctg cctcttatgg aagaagaaac agctgttcat tatgatgggtg acagtgggtg ctccttttgc tgtgtgctgg gcaccattcc atgttgtcca tatgatgatt gaatacagta attttgaaa ggaatatgat gatgtcaca tcaagatgat ttttgcctac gtgcaaatga ttggattttc caactccatc tgtaatccca ttgtctatgc atttatgaat gaaaacttca aaaaaaatgt tttgtctgca gtttgttatt gcatagtaaa taaaaccttc tctccagcac aaaggcatgg aaattcagga attacaatga tgcggaagaa agcaaatgtt tccctcagag agaaccagat ggaggaaacc aaaggagaag cattcagtga tggcaacatt gaagtcaaat tgtgtgaaca gacagaggag aagaaaaagc tcaaacgaca tcttgccttc tttaggtctg aactggctga gaattctcct ttagacagtg ggcattaa MKIKYDFLYE KEHICCLEEW TSPVHQKIY TFILVILFL PLMVMLILYS KIGYELWIKK P RVGDGSLRT IHGEMSKIA RKKRAVIMM VTWALFVAV WAPFHVWHM IEYSNFEKEY sapiens DDVTIKMIFA IVQIIGFSNS ICNPIVYAFM NENFKKNVLS AVCYCIVNKT FSPAQRHNS GITMRRKKAK FSLRENPEVE TKGEAFSDGN IEVKLCEQTE EKKLKRHLA LFRSELAENS PLDSG	Homo sapiens
511	160317	Neuropeptide FF 2 Receptor	NM_004885	tctggagcca agtaatgggtg atactgatgc ttccttttct ttgcccgcgt cggatttctga A gtttcacaa aatgtacctg ggtgcccctt agcgggatat gaatagcttc ttcggaacc cagcggccag ctggtgcttc ctggaagtgt agctctcatc tgcaccggac aaggaggcgg ggaggagag cagagcactc agcgtccagc agcgtcggct ggcagcctgg agcggaaacc tggagtggag caggeagtc ccgggggaca gacgtcggct gggattgagc cggcagactg cgaaaagtat ctggagccgg agcagggaca gaacctgttg ctgcagacgg gcttgggtga ttctggttcc tgcgcgcgac agggctcgc tctggaaatgt catcatgaat gagaaatggg acacaaactc ttcagaaaa acctatgtga actactatct tcaccagcct caagtggcag tgtactcaga tattaatatt accatgtga actactatct tcactatctc caagtggcag caatcttcat ttttctctac tttctgatct tctttttgtg catgatggga aatactgtgg tttgctttat tgtaatgagg acaaacata tgcacacagt cactaatctc ttcactttaa acctggccat aagtgttga ctagtggca tattctgcat gcctataaca ctgctggaca atattatagc aggatggcca tttggaaaca cgatgtgcaa gatcagtgga ttggtccagg gaatatctgt cgcagcttca gtctttactg tagttgcaat tgcgtagat aggttccagt gtgtggtcta cctttttaa ccaagctca ctatcaagac agcgtttgtc attattatga tcatctgggt cctagccatc accattatgt cctcatctgc agtaagtta catgtgcaag aagaaaaata ttaccagtg agactcaact ccagaaata aaccagtcca gtctactggt gcccgggaaga ctggccaaat caggaaatga ggaagatcta caccactgtg ctgttttcca acatctacct ggctccctc tccctcattg tcatcatgta tggaggatt ggaatttcc tcttcagggc tgcagttcct cacacaggca ggaagaacca ggcagtggtg cactgtgtgt ccaggaaaaa gcagaagatc attaagatgc tctgtattgt ggcctgctt tttatttctt	Homo sapiens

512	160317 Neuropeptide NP_004876.1 FF 2 Receptor	catggtgccc cctgtggact ctaatgatgc tctcagacta cgctgacatt tctccaaatg aactgcagat catcaacatc tacatctacc ctcttgaca ctggtcggca ttcggcaaca gcagtgtcaa tcccatcatt tatggtttct tcaacagaaa tttccgcgtt ggtttccaaag aagctttcca gctccagctc ccatgtgctc ataaacacat ctaactcagct tctccaggaa tctacatttc aaaacccctca tggggaacc ttgctttata ggaacagctg tgaataaacc caacaggaat tagtgatgga agaattaaaa gaaactacta acagcagctga gatttaaaaa gagctagtgt gataatccta actctactac gcattatata ttaataacca ttgctttttg tggctttgca cttcaaatct tcaagaat gtctaaata aaacattttac tgaagccctt ctctggcaaa aaaattaaaa ataaacaaaa atggtcataa gatcataaac aatcttatgt tgtataaaaa tacgtagagt gacttagaca tgtttgcatg aataaatata tttctagaga acagttaaaa aaaaaaaaaaaa	Homo sapiens
513	160324 G Protein-Coupled Receptor GPR86/GPR94/P2Y13	LNLSRQTAKS SWSRSRDRTS SAPDKEAGRE RRALSVQQRG GPWMSGGLEW SRQSGDRRR P VNDTKHHLYS DINITVYNY LHQPQVAAIF IISYFLIFFL CMGMNTVVCF IVMRNKHMHT VTNLFILNLA ISDLLVGIFC MPITLLDNII AGWPFEGNTMC KISGLVQGIS VAASVFTLVA IAVDRFQCW YPFKPKLTIK TAFVIMIIV VLATIMSPS AVMLHVQEEK YYRVRLNSQN KTSPVYWCRE DWPNQEMRKI YTTVLFIANI YLPLSLFIR YGRIGISLFR AAVPHTGRKN QEQWHVVSRR KQKIIKMLLI VALLFILSWL PLWTLMLMSD YADLSPNELQ IINIYIYPFA HWLAFGNSSV NPIIYGFNE NFRGFQEF QLQLCQKRAK PMEAYTLKAK SHVLINTSNQ LVQESTFQNP HGETLLYRKS AEKPPQELVM EELKETTSS EI aacagtattt tcttttcaa cacatctatt gaaagtgttg gataaatgca ggatgttaat A atgctataaa cataaagtct gtttttaaaa aatagcatctt gaaaatcatg aagggtcttt tgttttcttt tgtttgata tatgtttatt gtaacagagt gacactggaa gcaatgaaca ccacagtgat gcaaggcttc aacagatctg agcgtgccc cagagacact cggatagtag agctggtatt cccagccctc tacacagtgg ttttttgac cggcatcctg ctgaataactt tggtctgtg ggtgtttgtt cacatcccca gctcctccac ctctcatcct tacctcaaaa acactttggt gccgacttg ataatacac ccatgcttcc ttttcaaaatc ctctctgact cacactggc accctggcag ctacagagctt ttgtgtgtcg tttttcttcg gtgatatattt atgagaccat gtatgtggc atcgtgctgt tagggctcat agcctttgac agattcctca agatcatcag accttgaga aatattttc taaaaaacc tgtttttgca aaaaaggctct caatctcat ctggttcttt ttgttcttca tctcctgccc aaatatgac ttgagcaaca aggaagcaac accatcgtct gtgaaaaagt gtgttctctt aaagggtcct ctggggctga aatggcatca aatggtaaat aacatatgcc agtttatttt ctggactgtt tttatcctaa tgcttggtgt ttatgtggtt attgcaaaa aagtatatga ttttataga aagtccaaaa gtaaggacag aaaaaaac aaaaagctgg aaggcaaatg atttgtgtc gtggtgtgtct tctttgtgtg ttttgctcca tttcatctttg ccagagtctc atatactcag agtcaaacca acaataagac tgactgtaga ctgcaaaatc aactgtttat tgctaaagaa acaactctct ttttggcagc aactaacatt tgtatggatc ccttaataata catattctta tgtaaaaaat tcacagaaaa gctaccatgt atgcaaggga gaaagaccac agcatcaagc caagaaaaatc atagcagtca gacagacaac ataactttag gctgacaact gtacataggg ttaactttcta	Homo sapiens

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p>tttattgatg agacttcggt agataaatgtg gaaatcaaat ttaaccaaga aaaaaagatt ggaacaaatg ctctcttaca ttttattatc ctggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccatta ctaagagaat gcaacaggat acaaatggcc actagaggtc attattctt tctttcttt tttttttt aatttcaaga gcatttcact ttaacatttt ggaagagact agagagaac gtatatccct acaaacctcc cctccaaaca cctttcaca tctttttcca caattcactg aacactactg cttttgtgcc ccttaaatgt agatatgtgc tgaagaaaaa aaaaaagcc caactcttga agtccattgc tgaaaactgc agccaggggt tgaagggat gcagacttga agagtctgag gaactgaagt gggtcagcaa gaccttgaa atcctggga aggattttc tcttacaat tacaacagc ctctttcaca ttacaataat ataccatagg aggcacaaag accattatta agccactttg cttacacctt aagtgtgtac aattcaagt tgagaatgct gtgttaacta ttctttggaa ttctccttct gtccagcaaa tactctaag atggttaaac atggcaccta ctacagcaatg ccttccttga ccacaacccc tatccccctg cccacacctc ctcatataaa acaataactt ctactgtttg ggtgtgtgat aggtttctca atgcagactt ccttttcta gttagctata ttcttgactg catccgctaa aatgtttaa gcttcttgag agacagacat gccagatttt cttggtatct ccataatgc gacctacagt ccatggtcta cagatgtttt aatagaat gctattctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatattg ggagattttt caaagatgg tgacctgct tgtatttatt taccctggta tttttcttg catccttctg tgattcaaaa agtaaaaatg tggctttctg aatgatgga taagagtcta catccttctag aaaaaataca taaaggagta gttaaagctct gtaaatgtgc cagagctcc aacagacca tcgtagggtg agccccagt tttcttccat ggcctcaaa gacctagaac ttgcctacct tcttgacctt acctcctagc tacttatcca tctcttgaac ttatactct tgtataaatt tctaaacttc agaaaatgcc atactctgt ttggcaccac acatgtatat ttccccctgg tacacttga agactcttat ccatctgtga aacctatgt tgtcatcact tgggtccatga aatattacct ggccaatgc ccacatcac ctcaaaccca atcacccct cctctgtatg ctgtcacacc tatattatta aacttatcac attgcatgtg aattacttcc tgacctttgt atctactctt ttagtaaatg atgtatatat ctgaaaggag agattgtttc attgtgcaat caataaatgt ttgataaaat aaagccc</p>	Homo sapiens
515	160329	Proteinase- Activated Receptor 4	NM_003950	<p>attgtgcaat caataaatgt ttgataaaat aaagccc</p> <p>ntntvmqgfn rsercprdtr ivqlvfpaly tvvltgill ntlalwfvh ipssstfiy p lkntlavadli mtmlpfkll sdshlapwql rafvcrfssv ifyetyvvgi vllgliafdr flkiirplrn iflkkpveak tvsifiwffl ffislpnmil snkeatpssv kkcaslkgpl glkwhqmvnn icqfiwtfvf ilmlvfyyvi akkvydsyrk skskdrknk klegkvfvv avfvvcfapf hfarpvpyths qtnnktcdrl qnqlfiaket tlflaatnic mdpliyyiflc kkfteklpcm qgrkttassq enhssqtdni tlg</p> <p>ctccccaggg ctggctggga agcggccctg gtgggtctgc gggggcaggg gcagccttcc a tggtttatct ccaccggcg gatctgctcg tccgcctcgg ctceagaagc tggggctcag gggtccggcg ggcaggagc ctgaggccac agcccagagc agcctgagtg cagtcagtgtg ggggcgactg ctctgtggc ccttggtgct ggggttcagc gtgtctggcg gcaccagac ccccagctc tacgacgaga gcgggagcac cggaggtggt gatgacagca cgccctcaat cctgcctgcc ccccggggt acccaggcca agtctgtgct agtgcagtg acacctgga gctcccgac agctcaggg cactgcttct gggctgggtg cccaccaggc tgggtcccg</p>	Homo sapiens

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516	160329	Proteinase- Activated Receptor 4	NP_003941.1	<p> tggggctggg gctgcatcc ctggagactc actgcaagt ctgcccagg aggtgaggg caccatccc ttagtgccc atgtgtggc ccacacagg ccagagcctg gttggccatt ctcatgccc ccagcttctg gctttggat gtcttttag caaccagaat agcaccccca actctgctcc ccaaaaccca tctacacctg cctcagcct cctgtatcc cctgactgct gggacccctc gcctccctc ggacaatgg gggtggggg ggacagtgtg tgcggggggg ttcgggtgct gcagacctg aactccctc tggcaggatg ttggcagccg gttgtaagcc ttgcacggga cagaccacac ccaccgcaac ctcatccct cagcactaac cacatccact ctcaaccccg tcccctcgc actgaccaca cccaccccg tggccccgc cccccgact gaacactccc gccctcaacc ccgacccctc cgcactacc tcccctcgc cgtcagacc cgccctcacc acactgacca cctcaaccc attgcccga gtcccacca cagtgaccac accctcactg gctcgccct gccccagta tactgacct tcccagcca ctcccttcc gcaattacca ctcccagc cagccccct cccgtgacc gctctccag cccgcctcc ccgtacagg cagagcgcc gccacctct atgtgcgtt ctctgactt tacgttgcc ctctctctgc caagccccc gggagacct cctggcgctc cagaggtggg agtcggggg tggcaggccg cgggtggggg cggcagtgc tccgcgact caccgggcc cggggcagg ggcgctcca ctctgttgc cggggtccg gcgcacagt cccggcgag tgggctgtgc gtctgactg ttagaagcg agtggcctc aggtactcg gacgaggtg gcgggtgacc aagtgcagg gcgacgggtc agggacggg cggggccggg ggtgcgggc cgcgggccta ccgggtctgt agtagctga caggagact ggcagcgcc agctcctgcc caccacgac tcccgagag cagggaacc cagcacgtc aggcacggc tggggatctg tggggcagcg gcggcgccg gctcgaccg ggcaggagg cccggggcg tgagctcagg ccagaactg gctgatttca gggataccca ggacgctga aacacagaag aaactgact ccattttctt ttttctttt actttcttt ttttttttt tctctgagc agagtctgc gctgttgc aggctggagt gcagtgggt gatctcggt cactgcaagc tcggcctcct gggtcfaat gatctcctg cctcagctc ccaagtagt gggataacag gcgccacca ccgacccctg ctaattttt gtatttttga tcaagacgga gtttaccat gttggccagg ctggtctcca actcctgccc tcaagtgat cgcctcggt ccaattttta tcttttgggt ccttccatcc cactgggaaa acgtctcagg tggcctctga aacaccactc ttttttgtgt ggtgcacgc atggtgagc atgtgtgggt gggagtcagc acttccaga tactgtcaa tcatcacctc tgtctagtta caggacggt tcttctccc ccaagaacac ccatcgcca tcagcactca ctcccaactc cccagcccc tggcaaccac aaacttttcc aactctacgg attgacctgt tctgggcatt tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaa aaaaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaa aaaaa </p>	<p> Homo sapiens </p>
				<p> MWGRLLWPL VLGFSLSGT QTPSVYDESG STGGDDSTP SILPAPRGYP GQVCANDSDT P LELPDSSRAL ILGWVPTRLV PALYGLVLV GLPANGALW VLATQAPRLP STMLLMNLAT ADLLALALP PRIAYHLRGQ RWPFGAACL LATAALYGHM YGSVLLAAV SLDRYLALVH PLRALRGR RLALGLCMMA WLMMAALALP LTLQRTFL ARSDRVLCHD ALPLDAQASH WQAPTCLAL LGCFLPLAM LLCYGATLHT LAASGRRYGH ALRLTAVVLA SAVAFFVPSN LLLLHYSDP SPSAWGNLYG AYVPSIALST LNSCVDFFIY YVSAEERDK VRAGLFQSP GDTVASKASA EGGSRGMGTH SLLQ </p>	

517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	cggcagcagg gtcctgctct gtcacacagg ctggagtga gtggtgtgat ctggctcat	A	Homo sapiens
			cgtaacctcc acctcccggtg ttcaagtgtat tctcatgctt cagctcccc agtagctggg		
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			ctgcagacga cactgttctt gctgagtctg ctcttccttg tccaaggtgc ccacggcagg		
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			ctctaccact tctgctctta ctggaaccga catgctggga gattacatct tctctatggc		
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519	160387	Glucagon- Like Peptide 2 Receptor	NM_004246	<p>MT PQSLLQTT LFLSLFLV QGAHGRGHRE DFRFCSQRNQ THRSSLHYKP TPDLRISIEN P</p> <p>SEALTVHAP FPAHPASRS.FPDPRGLYHF CLYWNRHAGR LHLLYKGRDF LLSDKASSLL</p> <p>CFQHQEESLA QGPPLIATSV TSWSPQNIS LPASAFTFS FHSPHTAAH NASVDMCELK</p> <p>RDQLLSQFL KHPQKASRRP SAAPASQQLQ SLESKLTSVR FMGDMVSFEE DRINATVWKL</p> <p>QPTAGLQDLH IHSRQEEQS EIMEYSVLLP RTLQRTKGR SGEAEKRLLL VDFSSQALFQ</p> <p>DNSSQVLGE KVLGIVVQNT KVANLTPVV LTFQHQLQPK NVTLOCFWV EDPTLSSPGH</p> <p>WSSAGCETVR RETQTSFCFN HLTIFYAVLMV SSVVEDAVHK HYLSSLSYVG CVVSALACL</p> <p>TIAAYLCRV PLPCRRKPRD YTIKVHNNLL LAVFLDTSF LLSEPVALTG SEAGCRASAI</p> <p>FLHFSLLTCL SWMGLEGYNL YRLVVEVFGT YVPGYLLKLS AMGWGFPFL VTLVALVDVD</p> <p>NYGPIILAVH RTPEGVIYPS MCWIRDSLVS YITNLGLFSL VLFNNAMLA TMVQIILRLR</p> <p>PHTQKWSHVL TLLGLSLVLG LPWALIFFSF ASGTQLVLV YLFSIITSFQ GLIFIFIWYS</p> <p>MRLQARGGPS PLKNSNDCAR LPISSGSTSS SRI</p> <p>atgaagctgg gatcgagcag ggcaggccct gggagaggaa gcgggggact cctgcctggc A</p> <p>gtccacgagc tgcctatggg catccctgag cctctgggga ccagtcctct ctccttccac</p> <p>aggaagtgtc ctctctgggc cctctgggag cctctctca ccttggtcct gctgggttcc</p> <p>atcaagcaag ttacaggatc ctctcttgag gaaacgactc gaaagtgggc tcagtaaaaa</p> <p>caggcatgtc tgagagactt actcaaggaa cctctctgca tatttgtaa cgggacattt</p> <p>gatcagtagc tgtgttggcc tcattctct cctggaaatg tctctgtacc ctgcccttca</p> <p>tacttacctt ggtggagtga agagagctca ggaaggccct acagacactg cttggctcag</p> <p>gggacttggc agacgataga gaacgccac gatatgtggc aggatgactc cgaatgctcc</p> <p>gagaaccaca gcttcaagca aaacgtggac cgttatgcct tgcgtcaac cttgcagctg</p> <p>atgtacaccg tgggatactc ctctctctt atctcctct cctggctct caccctcctc</p> <p>ttgtttcttc gaaaactcca ctgcacgcgc aactacatcc acatgaactt gtttgcttct</p> <p>ttcatcctga gaacctggc tgtactgtg tgaacgtcg tcttctaca cttctactcc</p> <p>aagaggcctg acaatgagaa tgggtggatg tctacctgt cagagatgtc caccctcctg</p> <p>cgctcagtc aggttctctt gcattactt gtgggtgcca attacttatg gctgctgggt</p> <p>gaaggcctct acctccacac gctgctggag cccacagtgc tctctgagag gcgctgtg</p> <p>ccagatacc tgcgttggg tgggcccct cctgtgctat ttgtgtacc ctggggtttc</p> <p>gccctgacac acctggagaa cacagggtgc tggacaacaa atgggaataa gaaaatctgg</p> <p>tggatcatcc gaggaacctat gatgctctgt gtaacagtca atttctcat cttcctgaaa</p> <p>attctcaagc ttctcatctc taagctcaa tgcctcaaa tgggtctcag agattataa</p> <p>tacagattgg caaatcaac actggctcctc attcctttat tgggctgtca tgagatcctc</p> <p>ttctctttca tcaatgatga tcaagttgaa ggattatgaa aacttatag acttttcatt</p> <p>cagttgacac tgcgtcctt tcatgggttc ctaggtggcct tgcagtatgg ttttgccaat</p>	Homo sapiens

520	160387	Glucagon-Like Peptide 2 Receptor	NP_004237.1	<p> ggagaagtga aggtgagct gcggaatac tgggtccgct tctgttagc ccgccaactca ggctgcagag cctgtgtcct ggggaaggac ttccggttcc taggaaaatg tcccaagaag ctctcggaag gagatggcg tgagaagctt cggaagctgc agccctcact taacagtggg cggctcctac atctagccat gcgaggtctt ggggagctgg gcgccaagcc caaacaggac catgcacgtt ggcgccggg cagcagcctt ccgagtgca gtgaggggga tgtcaccatg gccaacacca tggagagat cctgggaag agtgagatct ag MKLGSSRAGP GRGSAGLLPG VHELPMGIPA PWGTSPLSFH RKCSLWAPGR PFLTIVLIVS P IKQVTGSLLE ETTRWAQYK QACLRDLKE PSGIFCNGTF DQYVCPHSS PGNVSVPCPS YLPWSESS GRAYRHCLAQ GTWQTIENAT DIWQDDSECS ENHFKQNVD RYALLSTLQL MYTVGYSFSL ISLFLAITLL LFLRKLHCTR NYIHMLFAS FILRTLAVLV KDVVFYNSYS KRPDNENGWM SYLSEMSSTSC RSVQVLLHYF VGANYLWLLV EGLYLHTLLE PTVLPERRLW PRYLLLGWAF PVLFVVPWGF ARAHLENTGC WTTNGNKKIW WIIRGPMMLC VTNFFIFLK ILKLLISKLK AHQMCFRDYK YRLAKSTLVL IPLLGVHEIL FSFITDDQVE GFAKLIRLFI QLTLSFHGF LVALQGFAN GEVKAELRKY WRFLLARHS GCRACVLGKD FRFLGKCPKK LSEGDAEKL RKLQPSLNSG RLLHLAMRGL GELGAQPOQD HARWPRGSSL SECSEGDVTM ANTMEEILEE SEI </p>	Homo sapiens
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522

160388 Latrophilin- NP_055736.1

1

P

Homo
sapiens

523	160390	Cadherin EGF NM_001408 LAG Seven- Pass G-Type Receptor 2 (CELSR2)	<p> NGVVKVVFIL YNNLGLFLST ENATVKLAGE AGPGGPGGAS LVNLSQVIAA SINKESRVF LMDPVIFTVA HLEDKNHENA NCSEFWNYSER SMLGYWSTQG CRLVESNKTH TTCACSHLTN FAVLMAHREI YQGRINELL SVITWVGIVI SLVCLAICIS TFCFLRGLQT DRNTIHKNLG INFLAELLF LVGIDKTQYE IACPIFAGLL LYFLEGVHLYL LLVEFESEY SRTKYYLGG YCFPALVGI AAIDYRSYG TEKACWLRVD NYFIWSFIGP VSEFIVVNLV FLMTVLHKMI RSSSVLKPDS SRLDNIKSWA LGAIALLELL GLTWAFGLLF INKESVVMAY LFTTFNAFQG VFIEFHCAL QKKVHKEYSK CLRHSYCCIR SPPGTHGSL KTSAMRSNTR YYTGTSRIR RMWNTVRKQ TESSEFMAGDI NSTPTLNRGT MGNHLLTNPV LQPRGGTSPY NTLIAESVGF NPSSPPVFN PGSYREPKHP LGGREACGMD TPLNGNFNN SYSLSRGDFP PGDGGPEPPR GRNLADAAAF EKMIISELVH NNLRGSSSAA KGPPPEPPV PPVPGGGGEE EAGGPGGADR AEIELLYKAL EEPDLLPRAQ SVLYQSDLDE SESCTAEDGA TSRPLSSPPG RDSLYASGAN LRDSPPSPDS SPEGPSEALP PPPAPPGPP EIYTSRPPA LVARNPLOGY YQVRRPSHEG YLAAPGLEGP GPDGDGMQL VTSL taggagccgg agggaggagcc gccgcgcgcg ttgacccggc cgcggggccgg gagctgggag A agatgcccgg ccggccacc gccgtcccc tcccaacgcc gccgcggccg ctgctgctgc tgttctgct gctgctgccc ccgccactat tgggagacca agtggggccc tgcgttccct tgggggccag gggagcaggc tcttcggggg cctgcgccc catgggctgg cctgttccat cctcagcgtc gaacctctgg cctacacca gccgctgcag ggatgcgggc actgagctga ctggccacct ggtacccacc cactatggcc tgagggtttg gtgtccagaa tccgaggccc atattccct accaccagct cctgaaggct gccctggag ctgtgcctc ctgggcatg gaggccacct tccccacag gccaaagctca cactgccga gggacacccg tgcttaagg ctccacggct cagatgccag tccgtcaagc tggcacaagg cccggggctc agggcagggg aaaggctacc agaagagtc cgggtgggc ctgggaaaag gaatgtaaat acagccccc agttccagc cccagctac caggccacag tgcggagaa ccagccagca ggcacccctg ttgcatccct gagggcctc gaccggagc aggtgaggc aggtcactg ggtacacca tggatgccct cttgatagc cgtccaacc agttcttct cctggaccca gtactggtg cagtaaccac agccaggag ctggatcgtg agaccaagag caccacgtc ttcagggtca cggcgaggga ccacggcatg cccgacgaa gtgcccctggc tacactcacc atcttggtta ctgacaccaa tgaccatgac cctgtgttcg agcagcagga gtacaaggag agcctcaggg agaacctgga ggttggtctat gaggtgctca ctgtcaggc cagcgatggt gatgcccc ccaatgcca tttctgtac cgcctgctgg aggggtctgg gggcagcccc tctgaagtct ttgagatcga cctcgtctt ggggtgatcc gaacccgtgg cctgtggat cgggaaggag tggaaacctt ccagctgacg gtagaggcaa gtgaccaggg tcgggacccc ggtcctcggg gtaccacagc cgtgttttc cttctgtgg aggatgacaa tgataatgcc cccagttta gtgagaagcg ctatgtggtc caggtgaggg aggatgtgac tccaggggcc ccagtactcc gagtacacgc ctggatcga gacaaggga gcaatgccgt ggtgactat agcatcatga gtggcaatgc tcggggacag ttttatctgg atgccagac tggagctctg gatgtggtga gccctcttga ctatgagacg accaaggagt acaccctacg ggtgcgagca caggatggtg gccgtcccc actctctaat gtctctgct tggtagacgt aggttccctg gatataacg acaatgcccc catctctgct agcaccctt tccaggtcag tgcctggag agcgtcccc taggctacct ggttctccat gtccaggcta tcgagcgtga tgctgtgac aatgcccc </p>	Homo sapiens
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aaggtgccta ttctttttt

SEQ ID NO:	LSID	Gene	Source ID	LPID	Peptide	SpeciesName
692	127	5-HT1A Receptor	P08908	595	CAPASFERKNERNAEAKRKM	Homo sapiens
693	127	5-HT1A Receptor	P08908	608	GRIFRAARFRIKTVKKVE	Homo sapiens
694	127	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	127	5-HT1A Receptor	P08908	612	RHGASAPQPKSVNGE	Homo sapiens
696	128	5-HT1B Receptor	P28222	585	KQTPNRTGKRLTRAQLTD	Homo sapiens
697	128	5-HT1B Receptor	P28222	586	SPGSTSVTSINSRVDP	Homo sapiens
698	128	5-HT1B Receptor	P28222	598	KVRVSDALLEKKKLMA	Homo sapiens
699	128	5-HT1B Receptor	P28222	599	ANLSSAPSQNCsAKD	Homo sapiens
700	129	5-HT1D Receptor	P28221	577	IKLADSALERKRISAA	Homo sapiens
701	129	5-HT1D Receptor	P28221	588	QEASNRSLNATETSEA	Homo sapiens
702	129	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	129	5-HT1D Receptor	P28221	590	KAQEEMSDCLVNTSQIS	Homo sapiens
704	130	5-HT1E Receptor	P28566	815	RHLSNRSTDQNSFASC	Homo sapiens
705	130	5-HT1E Receptor	P28566	817	CTTEASMAIRPKTTEKM	Homo sapiens
706	130	5-HT1E Receptor	P28566	818	DNLDHPGERQQISST	Homo sapiens
707	130	5-HT1E Receptor	P28566	2738	CVSDFSTDPTTEFEK	Homo sapiens
708	130	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQKRGSSR	Homo sapiens
709	131	5-HT1F Receptor	P30939	604	ESGEKTSKSVSTSVL	Homo sapiens
710	131	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	131	5-HT1F Receptor	P30939	864	IAKEEVNGQVLESSE	Homo sapiens
712	131	5-HT1F Receptor	P30939	869	STVRSLSRSEFKHEKSWR	Homo sapiens
713	132	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSNRITNLSC	Homo sapiens
714	132	5-HT2A Receptor	CAA01675.1	1107	FGLQDDSKVFEKESC	Homo sapiens
715	132	5-HT2A Receptor	CAA01675.1	1108	PGSVTGRRTMQSISNEQKAC	Homo sapiens
716	132	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKGHSEEAASKDNSD	Homo sapiens
717	132	5-HT2A Receptor	CAA01675.1	1110	NTIPALAYKSSQLQMGQ	Homo sapiens
718	133	5-HT2B Receptor	P41595	1111	KGIEDVDNPNNTIC	Homo sapiens
719	133	5-HT2B Receptor	P41595	1112	CSSPEKVAMLDGSRKDKA	Homo sapiens
720	133	5-HT2B Receptor	P41595	1113	RRTSTIGKKSQVTSISNE	Homo sapiens
721	133	5-HT2B Receptor	P41595	1114	CNYRATKSVKTLRKRSSK	Homo sapiens
722	133	5-HT2B Receptor	P41595	1187	SQLQTESIPEEMKQIVEEQG	Homo sapiens
723	134	5-HT2C Receptor	P28335	1115	CKRNTAEENSNPNQDQNA	Homo sapiens
724	134	5-HT2C Receptor	P28335	1116	GHTEEPPLSLDFLKC	Homo sapiens
725	134	5-HT2C Receptor	P28335	1117	CNYKVEKKPPVRQIPRV	Homo sapiens
726	134	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNNTIC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSFLVHLGLLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPAIVTDIFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKFPDGVQNWPAIS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIDIEKRKFNQ	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRPQADQHSRMR	Homo sapiens
733	136	5-HT4 Receptor	CAA73107.1	656	CDDERYRPSILGQTVP	Homo sapiens
734	136	5-HT4 Receptor	CAA73107.1	657	RDAVECGGWESQCHPPATS	Homo sapiens
735	136	5-HT4 Receptor	CAA73107.1	2682	VTAKEHAHQIQLQRAGASSESRP	Homo sapiens
736	136	5-HT4 Receptor	CAA73107.1	2683	KSFRRAFLILCCDDE	Homo sapiens
737	136	5-HT4 Receptor	CAA73107.1	2684	VTAKEHAHQIQLQRAGA	Homo sapiens
738	136	5-HT4 Receptor	CAA73107.1	2685	KEHAHQIQLQRAGA	Homo sapiens
739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIQLQR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPREKQASLASPSLRIS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMRDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAVNFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASPAITWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAAKHKFPGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLSRLKHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLRAC	Homo sapiens
748	272	Adenosine A1 Receptor	AAA17544.1	8	CHKPSILTYAIFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AAA17544.1	9	NGSMGEPVIKCEFEKVISME	Homo sapiens
750	272	Adenosine A1 Receptor	AAA17544.1	10	NKKVSASSGDPQKYVGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AAA17544.1	11	NDHFRCCQPAPIDEELPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQKPPIDEELPEEKAE	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEELPEEKAE	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAA17544.1	303	MPPSISAFQAAYIGIEVU	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QNGTGLPDVELLSHELKGV	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQGEFKAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIRFRQIFRKIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNINCTEPWDGTNES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDHSRTLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDRFYTHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSNGGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGKKNPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MLLETQDALYVALELVIAAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIRNKLNLNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NMILTSEYHRNVFLSC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKIKKFETYLLIUKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFKTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRRWLALGLC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLP EEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADDIIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVTMRRTVVVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTIRSLAAGVKRERGKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEPVPPDERFCGITEEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRURMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTRSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMNSKELTLRIHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLRSQSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLITEPESPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKTHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AAA93114.1	1246	RIPVGSRETFYRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AAA93114.1	1247	SSMPRGSARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AAA93114.1	1248	ESRGLKSLKTDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPNGLGPERISAGPG	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEPAPAGPRDIALD	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVKPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPGATGIGTPAAGPGEE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRGNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	IYKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGPGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMAASGRQRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRTKVWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AA02793.1	794	FRIMKEYSDEGHNVAC	Homo sapiens
804	600	Bradykinin B2 Receptor	AA02793.1	795	CTMQIMQVLRNNEMQKFE	Homo sapiens
805	600	Bradykinin B2 Receptor	AA02793.1	796	CQDERIIDVITQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AA02793.1	797	CRSEPIQMENSMGTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEGEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNRSHAPDHDVTQGR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVMVFVYSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRSLAPAPVGTCAPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAARSSPAQPRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWTVGTKYRSEVT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMTDESDT	Homo sapiens
825	692	Bombesin Receptor Subtype-3	AAA35604.1	20	SITNDESSSSVVSDNTNIN	Homo sapiens
826	692	Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCTSYPSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLKSTLNIPTEEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAQFLCCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	QRQPHSPNQTLISITNDE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNYNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SGGHNNLSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYVGWVHRLRQAQRPP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLPSPWRSSSESENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTEFDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLFGA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFGQDLFTHC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVYSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYPFLPSEKLERTS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADIRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVIDTQDETIVNSY	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESNSNYLYESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTQSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLEVEVLQDCTFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVIDDDYIGDNTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSESEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHIRRSMSE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFLKDLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELIQING	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHQLKRCQNHNKTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SOIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSSYDYGENESDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRIRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLNDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRLQRLQSPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMSGSDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRMTDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHQKRAKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGHSHSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMINDRLD	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPLDNSD	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQIGILEAAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DLNTPVDKTSNTRLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTFILLRTWSRRRATRSTK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRLRKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELEESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPREGIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVSTISDGGPGYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMASKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMIDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAQPLDNSMGDSD	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSFKENEENIQC	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMILSGPQK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRIAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETEADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHCHLAHWKCC	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNLSKKAQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKQFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSKTSS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRPTRKPNTK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLNGQVREEYKRWITGKTKP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLNGQVREEYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRFC	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSSTSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVEEEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRYKDYDHYRIAL	Homo sapiens
914	1103	Corticotropin releasing factor Receptor 2	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	1103	factor Receptor 2	Q13324	505	DPEGPVSYCNLTILDQIGICW	Homo sapiens
916	1103	Corticotropin releasing factor Receptor 2	LR43	507	ALLEQYCHTIMITLNLGS	Homo sapiens
917	1240	Dopamine Receptor D1	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	1240	Dopamine Receptor D1	CAA41734.1	42	KAKPTSPSDGNATSLAETID	Homo sapiens
919	1240	Dopamine Receptor D1	CAA41734.1	43	CSQPESFKMSFKRE	Homo sapiens
920	1240	Dopamine Receptor D1	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	1241	Dopamine Receptor D5	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	1241	Dopamine Receptor D5	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	1241	Dopamine Receptor D5	P21918	1409	PNAVTPGNREVDNDEE	Homo sapiens
924	1241	Dopamine Receptor D5	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	1242	Dopamine Receptor D2	P14416	1403	KRSSRAFRHLRAPLKGNC	Homo sapiens
926	1242	Dopamine Receptor D2	P14416	1404	CTVIMKSGSFPVNRVR	Homo sapiens
927	1242	Dopamine Receptor D2	P14416	1405	KPEKNIGHAKDHPKIAK	Homo sapiens
928	1242	Dopamine Receptor D2	P14416	1406	GKTRTSKTMRRRLSQQKE	Homo sapiens
929	1243	Dopamine Receptor D3	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	1243	Dopamine Receptor D3	P35462	1399	CNSVRPGFPQQTLSPPD	Homo sapiens
931	1243	Dopamine Receptor D3	P35462	1400	CQDTALGGPGFQERGGE	Homo sapiens
932	1243	Dopamine Receptor D3	P35462	1401	KREEKTRNSLPTIAP	Homo sapiens
933	1243	Dopamine Receptor D3	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	1244	Dopamine Receptor D4	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	1244	Dopamine Receptor D4	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	1244	Dopamine Receptor D4	P21917	1396	PPSPTPPAPRLPGDPC	Homo sapiens
937	1244	Dopamine Receptor D4	P21917	1397	PPQTTPPQTRRRRAKITGRE	Homo sapiens
938	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	222	DAYSAPFSAGANASGP	Homo sapiens
939	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	226	SRPREATARERTAC	Homo sapiens
942	1424	Duffy Antigen	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	1424	Duffy Antigen	AAC50055.1	1412	NDSFPDGDYDANLEAAAPC	Homo sapiens
944	1424	Duffy Antigen	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKKALGMGPGP	Homo sapiens
946	1451	EBV-induced Gene 2	AAA35924.1	45	KQEAERITCMYEPNFEET	Homo sapiens
947	1451	EBV-induced Gene 2	AAA35924.1	46	KLRTAKQNPLTEKSGVNNK	Homo sapiens
948	1451	EBV-induced Gene 2	AAA35924.1	47	KSAPENSREMTETQM	Homo sapiens
949	1451	EBV-induced Gene 2	AAA35924.1	48	CKGYKRKVMRMILKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRAIPLLTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RSLAPAEVPGKDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRISPPPCQGPPIKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EEKQSLEEKQSLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSNLSNHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNIDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPGIEKFREAEERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLPVDITUR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSSTAFRLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKVAARATLRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVVSSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKVAITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SVESAGYTVLRILPLVL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFTVTIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVAITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	58	QESKVTEIPSDLPRNAIELR	Homo sapiens
972	1681		Follicle Stimulating Hormone Receptor	AAA52477.1	59	DVLEVIEADVFSNLPK	Homo sapiens
973	1681		Follicle Stimulating Hormone Receptor	AAA52477.1	60	RNGHCSSAPRVTSGSTY	Homo sapiens
974	1681		Follicle Stimulating Hormone Receptor	AAA52477.1	61	RGQRSSLAEDNESSYSRGFD	Homo sapiens
975	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2231	CHHRICHCSNRVFLCQE	Homo sapiens
976	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2232	LRVIQKGAFSGFGDLEK	Homo sapiens
977	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2233	LYVMSLLVLNVLAFFVIC	Homo sapiens
978	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2234	CNKSILRQEVDMTQARGQR	Homo sapiens
979	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2238	KLVALMEASLTYPSC	Homo sapiens
981	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2241	SFESVILWLNKNIGIQEIHNC	Homo sapiens
982	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2248	IHSLQKVLLDIQDNINIHT	Homo sapiens
983	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2250	KANNLLYITPEAFQNLDP	Homo sapiens
984	1681		Follicle Stimulating Hormone Receptor	NP_000136.1	2251	CYEMQAQIYRTIETSTVH	Homo sapiens
985	1726		G Protein-Coupled Receptor RDC1	AAA62370.1	1437	TNTPSSRKKMVRVRVVC	Homo sapiens
986	1726		G Protein-Coupled Receptor RDC1	AAA62370.1	1439	ARASASSDQEKHSSRK	Homo sapiens
987	1726		G Protein-Coupled Receptor RDC1	AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726		G Protein-Coupled Receptor RDC1	AAA62370.1	1893	PDTYLYLKTVTSASNNETYC	Homo sapiens
989	1762		Galanin Receptor GalR1	AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762		Galanin Receptor GalR1	AAA50767.1	193	PRASNQTFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor Gair1	AAA50767.1	194	KKLNMISKSEASKKITAQ	Homo sapiens
992	1762	Galanin Receptor Gair1	AAA50767.1	195	GNSLVITVLARSKP	Homo sapiens
993	1762	Galanin Receptor Gair1	AAA50767.1	196	RKDSHLSDTIKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFDQRULER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPGNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHADLPVNDWDWHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPPRIRGAGTRELEAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGLPGAVHQNRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSGKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPWDRAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEGKKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNQSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDAKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFGSSYPGVQS	Homo sapiens

1017	1945	Opsin, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opsin, green-sensitive	NP_000504.1	1767	STRGPFEGPNYHIAPR	Homo sapiens
1019	1945	Opsin, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKL	Homo sapiens
1020	1945	Opsin, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDLSLG	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTPWDINEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRGDAAWGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQRKLSLTKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLQAAEEMPNTLG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSES GAVKRD	Homo sapiens
1027	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	835	VRKLEPAQGSLSHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKL	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPWFSQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQYVSGLHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYYRIFKVARDQAKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHISWKA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLRNASQLSRTQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTIKVFSESIN	Homo sapiens
1045	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1434	CESTVRKVSNKTLVSS	Homo sapiens
1047	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1435	FAVRNPELMAINKDTIK	Homo sapiens
1048	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1436	CKRRAELYRRKDFSAYTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSSGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDGEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRYYAVVQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTGHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVVKRIAAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLELRNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor	P41968	563	IVHSDYLTEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R)	Melanocortin 4 Receptor	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1035	NSTDIDAQSFTVNIDN	Homo sapiens
1064	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1022	ATEGNLSGPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1025	MNSSFHLHFLDLNLNAT	Homo sapiens
1068	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1036	QGSQRRLLGSLNSTPT	Homo sapiens
1070	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1038	EAGALVARAAVLQQILD	Homo sapiens
1071	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1039	ALRYHSIVTLPRARQA	Homo sapiens
1072	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1040	CQHAQGIIARLHKRQRP	Homo sapiens
1073	3079	Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens	
1074	3079	Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens	
1075	3079	Melatonin Receptor type 1a	AAB17720.1	216	QVRQVRVKPDRKPKLKP	Homo sapiens	
1076	3079	Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens	
1077	3080	Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens	
1078	3080	Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens	
1079	3080	Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens	
1080	3080	Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens	
1081	3080	Melatonin Receptor type 1b	P49286	934	QEMAPQIPEGLFVTSY	Homo sapiens	
1082	3081	Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPDNQLAE	Homo sapiens	
1083	3081	Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens	
1084	3081	Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens	
1085	3081	Melatonin-Related Receptor	Q13585	754	HPKPAAADNPELSASHC	Homo sapiens	

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSLPESASSPAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMINKSGVRSVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNTFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKTLYNVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEYVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVLTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNYEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVLKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMINSRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLKYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGSGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGWDNDEL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVWSKSNIRSV	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAEAEHFPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPISLTHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTGTSDDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWGGDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAGSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLLDTNPSRAWI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELGYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLETNTSSSTKITYISYS	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQRTHSQEYAH	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRTNHQLENLEAETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLQLAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPPGSEVVIKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRPGS	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVSAVASNMRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSKQTC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQNIIVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANQDPVPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKHRPEGPKEKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKPRPGGRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSSGSATQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAAINVARKFASIARNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRAFRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDEKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETEFTV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETNNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLITASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTLIKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISLDNSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPELIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRSF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLIEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHQRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRLDAIHSESVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQTVEMIKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SESVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSKALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRLQRQRVFKHG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor Type 4	P50391	1071	CQQSAPLESEHLPLST	Homo sapiens
1172	3405	Neuropeptide Y Receptor Type 4	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Neuropeptide Y Receptor Type 5	Q15761	1072	MKKRNQKTTVNFUGN	Homo sapiens
1174	3406	Neuropeptide Y Receptor Type 5	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Neuropeptide Y Receptor Type 5	Q15761	1074	NLTLPSPKSKSPQVKL	Homo sapiens
1176	3406	Neuropeptide Y Receptor Type 5	Q15761	1075	SFIKKHRRRYSKKTAC	Homo sapiens
1177	3406	Neuropeptide Y Receptor Type 5	Q15761	1076	PERPSQENHSRILPEN	Homo sapiens
1178	3406	Neuropeptide Y Receptor Type 5	Q15761	1077	CFEIKPEENSVDVHELTV	Homo sapiens
1179	3408	Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Neurotensin Receptor Type 1	P30989	937	GEQNRSDGQHGAGGLVC	Homo sapiens
1182	3408	Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGGEHS	Homo sapiens
1183	3408	Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSIAK	Homo sapiens
1188	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTPQPMASPRLGTC	Homo sapiens
1189	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRQGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTIDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHPLKAQNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKKSSRNIFSVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRRLGETSASKNSSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKRK	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGVVYPLKSLGRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVRKNKTITCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RALUYKDLDNSPLRRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRATRKASRRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNINASEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIQNSIKMKNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMMAVVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRRPHELLQKLTAK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGGRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKIMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKRPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLTKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPLRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	248	KAKVQCELNITAGLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	249	ESLIMQDDPPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	251	EETKEDSGRQGGDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	763	LYSGATLDEAERLTFEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIQRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPELFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVVSRC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRVFAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVVS	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTTKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRKERIEGLRKR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGEGMHEKSPYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTISYGDVEYD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKPKFK	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMNERTSMNERE	Homo sapiens
1245	3846	Sphingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Sphingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIAG	Homo sapiens
1247	3846	Sphingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIAGME	Homo sapiens
1248	3846	Sphingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Sphingolipid Receptor Edg3	Q99500	1028	ERHLTMIKMRPYDANK	Homo sapiens
1250	3847	Sphingolipid Receptor Edg3	Q99500	1029	LVKSSSRKVANHNNSE	Homo sapiens
1251	3847	Sphingolipid Receptor Edg3	Q99500	1030	SPKVKEDLPHTDPSSC	Homo sapiens
1252	3847	Sphingolipid Receptor Edg3	Q99500	1031	CLVRGRGARASPIQPALD	Homo sapiens
1253	3847	Sphingolipid Receptor Edg3	Q99500	1752	REHYQYVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVVPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKSSKHAKLVIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVTKNLGC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLDYYSLESDLEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNNHTLCYNNFQKH	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SVVRVSVKLRNRVPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTQSQADWDRRRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLLVAWPRIKA	Homo sapiens

1267	3851	Receptor 10 (GPR10)	AAA91630.1	78	GCI PSSLAQRARSPD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRPVAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVIGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Receptor 1	AAA91783.1	85	SMNNRTVQHGVTISL	Homo sapiens
1273	3852	CX3C Chemokine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Receptor 1	AAA91783.1	87	GRSVHVDFFSSSESQSRHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSSTETSDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRLUD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNTC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVKVEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRSRLRRKSFSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSREKAKKMI/AASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVTRTMNIVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMSSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTIKDSIYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1152	ALLFSQDGGQREGQRR	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1154	ALLDTADLLAARERC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1155	RRLRGSSPSGPQPRRG	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KGSGRHHLSAGPHALIQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLFHLFARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDVSMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNGSSHFPCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQITANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNITVRDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERRERQKRVRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFKQVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLC/MCH1	AAH01736.1	1532	CAPGQGGRRWRPLQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLPTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGSGCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMSSVAPASQRSIRLRTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNAQTADERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPGGQDSQCCEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLSRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TWCLLGDAHSPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLTCGVVYPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGGSFSIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSYRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTCFEKEPME	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGSVSTERQEKAKIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLLRFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVSETVSLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVWRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRCQCVLVPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RLHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRNLRQLITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSQDNGTGHNAIFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VRLRSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSILRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWLSLRQRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMTGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTRGAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHKKGHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNNHKKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKDQI	Homo sapiens

1345	3870	Receptor OGR1 G Protein-Coupled Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDARLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPÉASG	Homo sapiens
1348	3921	Prostaglandin D2 Receptor	P43119	1188	CRMYRQQKRHQGSLGPRPT	Homo sapiens
1349	3921	Prostaglandin D2 Receptor	P43119	1189	CFTQAVAPDSSEMGD	Homo sapiens
1350	3921	Prostaglandin D2 Receptor	P43119	1190	ASGRDRPRAPSAPVGKEGSC	Homo sapiens
1351	3921	Prostaglandin D2 Receptor	P43119	1191	SAWGEGQVEPLPPTQG	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTTSVEKGN SAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREASQPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEEAEDLRALR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVT RPLLAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPD SRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAH D VEMVGGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRG D VGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKAWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIRIAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRSFSRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSQGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMKAYQRFRRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWEDEFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGGINRSSKGRSLUGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYVWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNINLAKPTLPKIFR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLHVKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCCHDVHNTCESSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGTPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEGKTNESSLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYTLKPEVNNESFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFYIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYLSLHG	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGSDDGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGDNRNFTSFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLGKSGHLQVNTT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLGELSREQTGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRLTSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MRKLRTQETRGNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDAVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKSE	Homo sapiens
1410	4481	Somatostatin Receptor Type 2	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type	P30874	1001	KQDKSRLNETTETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type	P30874	2276	DMADEPLNGSHITWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type	P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type	P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type	P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type	P32745	2626	QPGTSGQERPPSRVA	Homo sapiens
1417	4483	4	Somatostatin Receptor Type	P31391	1007	IFADITRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type	P31391	1008	CLLEGAGGAEELPDY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type	P31391	2627	KMRAVALRAGWQQRR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type	P31391	2631	CRAVLVDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type	P31391	2633	CLVGLVGNALVIFVL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type	NP_001044.1	2637	SLPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type	NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type	NP_001044.1	2643	RVAKLASAAAWWVLSLC	Homo sapiens
1426	4552		Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYKV	Homo sapiens
1427	4552		Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDYEGLMKSTRYL	Homo sapiens
1428	4552		Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETTISTVVGAAHEE	Homo sapiens
1429	4552		Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSLDLTSNC	Homo sapiens
1430	4687		Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687		Thrombin Receptor	P25116	2582	AVANRSKSRALFLSAAVFC	Homo sapiens
1432	4687		Thrombin Receptor	P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKYEPFWE	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLNCNCKQKPTE	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVVALNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDIIVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAIPII	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYQSVIYPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLTKNSYVGKNIITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPITWLQGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDITRPEEFHDYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPLRALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HITRTIYVLARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPROVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEG	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQIFYSNRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATPWLGRLDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AA65687.1	269	ESPRDLADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSSGAHWNRPLVAVAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVGPSE	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRTPTNAIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSYMTVIA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRAMLAMFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSTDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRVVDREQEENGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDDGI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAGAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDCKKQKQAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWSSVSSGGAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFPTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLTKC	Homo sapiens

1481	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	979	CTDDNLRGADMDIVHPQER	Homo sapiens
1482	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	980	SRSETGSTISMSSLERR	Homo sapiens
1483	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1102	KATKAYNQQAQRMTWG	Homo sapiens
1485	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1103	KTLHAGGFQKHRSLK	Homo sapiens
1486	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1104	SLKFRKNFWKLVKDIGC	Homo sapiens
1487	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1105	KSSDNSKTFASAHNV	Homo sapiens
1488	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	67	RRRVQRMAEHVCHPRYRE	Homo sapiens
1490	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	68	NAAVYSCRDAEMRRTFR	Homo sapiens
1491	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	39	QQEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	40	RSQKEGLHYTCSSHFPYSQ	Homo sapiens
1495	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	309	MDYQVSSPIYDINYYTSEPC	Homo sapiens
1496	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1092	EDEYDVLIIEGELESDEAEQC	Homo sapiens
1497	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1094	MKRTLRFREQRYSLFKLVFA	Homo sapiens
1499	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1096	RSNTPLQPRGQSAQGTRE	Homo sapiens
1500	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	127	GPGNSARDVLRARAPREEQG	Homo sapiens
1501	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	129	DPGGPRRGNSTNRVRLKNP	Homo sapiens
1502	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	130	LRQSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	131	PRGAVISGRSQEQSVKTVPG	Homo sapiens
1504	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	1781	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1505	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	1806	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1506	6536	Inhibitor 3	Putative Neurotransmitter Receptor (PNR)	NP_005293.1 O14804	319	TDWVETRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPTQR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAQQGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLSPGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MIRVLNVDAARRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGLALYRFSIRKQR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRIRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASRRQSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEFQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMID	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAAAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDLLHMSAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQQLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAQIMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGLDLEQGLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSLQSRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRTSTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLYPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLLPPLGNTPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELQTKV/PKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQRKAQNFTSILAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKV/DKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIVIRLKRNNNMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFSRDDDDYETAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHLPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

1555	9834	Type 1	NP_004373.1	1778	CESLSLASNISDNGYRE	Homo sapiens
1556	9834	Carticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Carticotropin releasing factor Receptor 1	NP_001457.1	1774	NHSEDGAPALLTAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPFHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRRPPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGQSFHGCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PPFLDAAPEPESE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVYSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKFLYVVGRKKMMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVWPNGELVRRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQRWGRRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANNGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFLRSRTLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNTQGSVDCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMNRSQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSGGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWYE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGEPTISNE	Homo sapiens

1581	16599	Smoothened	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothened	NP_005622.1	2671	ANVTIGLPTKQIPDC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAYVW	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNGSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRIQPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDLRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSFYDYDLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPYHRLTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGQGGRALK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEKKEWRTKLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEVVCRGEREVVGPKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRDLSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANILMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAASYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITVLS	Homo sapiens

1604	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1524	QGTLEILYPDAHLAED	Homo sapiens
1605	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	Receptor LOC51210 G Protein-Coupled	ENSP00000164265	2030	SVVQLRRQRDPDFEWNEGLC	Homo sapiens
1607	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2032	PAVGWHDTSERFYTHGC	Homo sapiens
1608	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	Receptor Ls19072 G Protein-Coupled	Q9UIZ3	1513	EHEPAGEEALRQKRAVATK	Homo sapiens
1610	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1514	ALRQKRAVATKSPTAE	Homo sapiens
1611	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1518	RLANNITGGWDSSGCVVEEGD	Homo sapiens
1613	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1519	CKQEKSSLFQISKSIG	Homo sapiens
1614	21632	Receptor KIAA0758 G Protein-Coupled	BAA96055.1	2164	CTAFQRRREGGVPGTRPGSPG	Homo sapiens
1615	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2167	CPAERVANNRGDFRWPR	Homo sapiens
1617	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2171	QNPPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	Receptor Ls21632 G Protein-Coupled	LR29	425	PAARVHRPSCRCRYRD	Homo sapiens
1620	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	426	TLARPDATQSQRRRKTVRL	Homo sapiens
1621	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	427	RSKLVAASVPARDRVRG	Homo sapiens
1622	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	428	AQSERSAVTTDAIRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGSR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILTFEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVIIIMRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDDGPGKNITLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSRRKRKHNSQIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAQKILYYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIYYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLTEEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAQRTRGRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYYREFPVQRQRISR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFCSCQDSGNL	Homo sapiens

1645	36534	Receptor RE2	O75473	1232	CQKLQKIDLRHNEIYKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	O75473	1233	NKGDNSSMDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	O75473	1234	QDERDLEDFLLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	O75473	1235	ERGFVVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	O75473	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2600	CKKINQLUSETAEVVTN	Homo sapiens
1652	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2610	ADDQTLLEGMMDDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2672	KYNQSLRRLRPLASQ	Homo sapiens
1654	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2673	KRYFAKEEFKFFQIC	Homo sapiens
1655	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2674	DGDRQKAMKRLRVPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2103	RVRSGRVRSYSTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2105	CNNSVPGKEHPDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2106	APSKPGLPKPQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2135	AASKPKSTPAVIQGPSGKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	O00406	1261	KRSELNKTQLTSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	O00406	1262	GNASTERNGVSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	O00406	1263	CRIKKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	O00406	1264	DFTGKQHMFMNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNNPASAGNGTQKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVMVNVSSLSLNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKSFVHNNG	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLITPRRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGGVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELLSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFIUG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVLTILPRVTIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKGIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATQNRFRFQFTQNGKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEYVRLFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLNVNHRRTHTLTKLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFTLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSYELQQLQSMKRSNRRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQMDQDHSSDSWNNN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRLRSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTPQLKVVGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARTHLP GC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDP SG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSLGKDDL RPSSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRTKNSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAQQRPDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRITE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPLSLRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDITIFHKVLSSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRITVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQIIRSCEAKQOLE	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1589	RIEPVYSYNSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNYNKLQHVQIRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVNIR	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKQKFFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFSELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQIRNPMDYVPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRVAPGHQAHAHANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLEITPTSLSTRVNR	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVAVPEDSGGKTL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQRKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVFFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKIYIVRNPNQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRINTNESGEEVT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTFDFDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNTGMPPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFFLRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLETETLNKVVIAIALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTNISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFTVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREEESHRSRNDCAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQRPRQKDN	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNTTEQVRSGNEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEDRGVGGEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLNRNQGSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Receptor	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Receptor 1	P32241	1297	LQKLPPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Receptor 1	P32241	1298	NPKYRHPSGSGNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Receptor 1	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2	P41587	1306	CGSFSRNGSEGALQFHR	Homo sapiens
1761	160055	Vasoactive Intestinal Polypeptide Receptor 2	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAFAAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRDITAG	Homo sapiens
1765	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1595	NPLVTGYLGRGPGLKTV	Homo sapiens
1766	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1596	GRYLGAFFPLGYQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1599	NASNVASFLYPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1618	DHSNTSLGINITPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRLVAAV	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGPSDPAAPHAEHLRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCPGCCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMR)	O15218	391	NVLTACRLRQPGQPKRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMR)	O15218	392	KDQTKAGTCASSSSCSTQ	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMR)	O15218	484	KGDSQPAAAAPHPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSTPNTVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNCGCTHCYLAFNDS	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLLREGVWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMLKEIYHPRMLLI	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEEEFLLSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMINSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAAVSLRLQHRGRRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRRITSIA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPGPRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRTQTVTTWVHLALSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFTVLSIAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPLNRLSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFSPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYVWVVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHLLGRRDHTQDWVQQK	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSIFFLQISM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMINIRAHPRSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR55 G Protein-Coupled	AAC52028.1	2	AQRPTDVGQAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYITSKLSDANC	Homo sapiens
1815	160221	Receptor GPR35 G Protein-Coupled	LR6	335	FPPVLDGGGDDDEAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARRLLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKPKQEDGGQSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADEQSAEAAALVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAEQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQQSRSKRGTEDEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPKDGGTPDSGQELR	Homo sapiens
1830	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Sphingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLFRMIRE	Homo sapiens
1833	160225	Sphingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Sphingolipid Receptor Edg6	CAA04118.1	72	RLVQASGQKAPRPAAR	Homo sapiens
1835	160225	Sphingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASTDSSLRPRD	Homo sapiens
1836	160225	Sphingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGQKAPRPAAR	Homo sapiens
1837	160225	Sphingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPRDSFRGSRSLFRM	Homo sapiens
1838	160225	Sphingolipid Receptor Edg6	CAA04118.1	1916	RSLSRMRPLSSISVR	Homo sapiens
1839	160225	Sphingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDETVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHNSGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRRQRKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTILCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWKSNDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVIKILKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPADKILPAAGSEMQIRP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDELSVDDSDKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRLPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHYNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1922	MMRKKAKFSURENPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1924	CEQTEEEKKLRHLALFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1925	KKRVGDGSLVLRTHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDTNSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNGEQWHVVSRRKKQKLIK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPQGLVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDRKNIN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13	NP_076403.1	1623	ARVPYTHSQTNNTKDC	Homo sapiens
		G Protein-Coupled Receptor				
		GPR86/GPR94/P2Y13				

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENIHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRRLALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQTFRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQSRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1213	CELKRDQLLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFRQRTKGRSGEAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLKETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAEKLK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHSEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMKRERTC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSYDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELIGHLVPHHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDTPEGVNSLDPSHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSGPSYIPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPTQTR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQQLQELKPSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYQPQKKVKSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDMEDL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDSLNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTADAANVTSTLENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDTLDRRESLSFAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKONENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963)	Platelet Activating Receptor	O14626	1226	ETFASPKETKAQKEKLR	Homo sapiens
1910	161024	Homolog (H963)	Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRR	Homo sapiens
1911	161024		Protein A	NP_062832.1	1691	EDARGKRRSSLDGSESAC	Homo sapiens
1912	161024		Protein A	NP_062832.1	1692	RTWVEQCVAIMSEEDGD	Homo sapiens
1913	161024		Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024		Protein A	NP_062832.1	1694	RRLSHDETNIESTPRE	Homo sapiens
1915	161024		Protein A	NP_062832.1	1695	GGPPEYLGQRHRLDEED	Homo sapiens
1916	161024		Protein A	NP_062832.1	1696	REEITFIDETPLSP	Homo sapiens
1917	161024		Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSP	Homo sapiens
1918	161214		Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214		Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214		Galanin Receptor GalR3	AAC35944.1	204	ASRHFRRFRRLWPC	Homo sapiens
1921	161214		Galanin Receptor GalR3	AAC35944.1	205	RARRALRRVRPASSGPP	Homo sapiens
1922	161221		Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221		Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRASFKRARRPGAR	Homo sapiens
1924	161221		Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221		Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCGRSLSCSPQPTD	Homo sapiens
1926	161249		G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPELNLIDEALRLK	Homo sapiens
1927	161249		G Protein-Coupled Receptor GPR66	LR20	395	IGLRLRRERLLMQEAKGRG	Homo sapiens
1928	161249		G Protein-Coupled Receptor GPR66	LR20	396	RGSAAARSRYTCRLQQH	Homo sapiens
1929	161249		G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251		Purinergic Receptor P2Y10	O00398	859	CFLLKPRFARDWKRRYD	Homo sapiens
1931	161251		Purinergic Receptor P2Y10	O00398	860	PFPIRLSTDNLNNKSC	Homo sapiens
1932	161251		Purinergic Receptor P2Y10	O00398	862	QLSRHGSSVTRSLMSKE	Homo sapiens
1933	161251		Purinergic Receptor P2Y10	O00398	863	LRQPPMAFQGISERQK	Homo sapiens
1934	161293		G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLDLDVDYEEAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYYPPEMSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYVVIIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEGKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLISPAPTASPPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSSPFLMAKPKQDEKNITKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHLSSVTYVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQQGDTIRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRLDGAREAAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFQRRRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPRSLKRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTLFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRRAQPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALS	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPHTSGIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERRPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGMTKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDVTMKALALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSURLPPEPERPRFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHLNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KKDKSLEADEGNANIQRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQARNIFLTEC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRIRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKQNLRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKKGTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGLKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKVPSPESPASIEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQTPGPSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSELSRSTMTVS	Homo sapiens

1978	189895	Receptor GPR61	AAK12637.1	1687	SSGAPQTTPHRTFGGK	Homo sapiens
1979	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1980	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLPSPKQE	Homo sapiens
1981	189900	Spingolipid Receptor Edg8	LRI	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1982	189900	Spingolipid Receptor Edg8	LRI	316	ALERSLTMARRGPAPVSS	Homo sapiens
1983	189900	Spingolipid Receptor Edg8	LRI	317	DGFSGSERSSPQRDGLD	Homo sapiens
1984	189900	Spingolipid Receptor Edg8	LRI	318	CGRDPSGQQSASAAEASG	Homo sapiens
1985	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAEIGKLVQGEVS	Homo sapiens
1986	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1987	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYVLLHETWRFGAAAC	Homo sapiens
1988	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1989	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1990	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVSDSSYQPSR	Homo sapiens
1991	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFREHLLQKKE	Homo sapiens
1992	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1993	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQIRNRQVATALPLE	Homo sapiens
1994	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSWKQYQC	Homo sapiens
1995	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFLAVGNPDLQIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNAIRHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMSLQRPFGMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRTQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVYGESYGKEGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTYFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKLSKLAHADGDDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLLRTSDDTPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAGDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQIHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVTLTQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQLVVKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTFLDGERERK	Homo sapiens
2013	190031	G Protein-Coupled	AAD55586.1	1729	EGKEGDYIRIPERLLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRNQNINQVKKDKKAAK	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVLFDALT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR58	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMMLRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDELQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPRAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDEESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLYNVKRHSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSESSV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPPS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAQALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSYNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSPYVWWPNIIWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFISIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFLFLWIHVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHPQKAKTKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFFPIVYLIIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIVVFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLHVTIRSAAWILC	Homo sapiens

2051	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2257	CGIIWILIMASSIMLLDSGS	Homo sapiens
2052	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2260	VSHRKALTTIIITLIIFLC	Homo sapiens
2054	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGL	Homo sapiens
2055	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2262	CKDRLHKALVITLALA	Homo sapiens
2056	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2263	YFAGENFKDRKLSALRKG	Homo sapiens
2057	190427	Receptor	Cysteinyll Leukotriene CysLT2	NP_065110.1	2264	HPQKAKTKCVFPVSVWLKE	Homo sapiens
2058	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	429	DSVSYEGDYSDLSDRPVDC	Homo sapiens
2059	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	430	RESQGGQDESVDKSKTSHD	Homo sapiens
2060	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	431	PSAIVRRRHGEHFARLQC	Homo sapiens
2061	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	432	CHWALRESQGGQDESVDKSKS	Homo sapiens
2062	190437	Receptor	G Protein-Coupled Receptor C5L2	NP_060955.1	2818	MGNDSVSYEGDYSDLSDRPVDC	Homo sapiens
2063	190438	Receptor	G Protein-Coupled Receptor Ls190438	ENSP00000080322	2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	434	EADLGATGHRPRTELDDED	Homo sapiens
2065	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	435	RTCHRRQQQPAACRGFARVAR	Homo sapiens
2066	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	436	EERPGSFTPEPTQTQLDSEG	Homo sapiens
2067	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	437	RSDPTAQPLNPTAQPSQSD	Homo sapiens
2068	190595	Receptor	G Protein-Coupled Receptor SH120	NP_057418.1	1730	RNVTDIDILALERRLLQ	Homo sapiens
2069	190595	Receptor	G Protein-Coupled Receptor SH120	NP_057418.1	1731	KKKRMAMARRTIFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTSASGSENLTUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALEELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKTDVPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC58	O75205	411	VRLPFIKEKEKKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC58	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC58	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC58	O75205	414	SQPRMRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAQNAYSRHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSSHSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTGMRRKNTCCN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTLVQAIRITSYME	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQRLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPYPSPYSTHRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPRPQGGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLTASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRP AERKTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	2569	MDTGPDSQSYFSGNHWFFSV	Homo sapiens

2092	190701	Receptor GPR41 & GPR42	AAF61299.1	1441	VAIYAYKKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVEEFPDSEGPTPE	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRTRGHRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRRFRKALKSLLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATTKPEHEDQGGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAAVSQN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGVWARRQPAQDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLHRRSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAYVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVYGKLLLFYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	558	KDCIESTGDYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGSR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLLEKQEKNAHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKKRSLGLTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMDE	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTLVLMRKNNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPIFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMILKIASMHSSQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTSPDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTISSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSFLLFLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLIYAWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSLRSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLSRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSLPLRPLRPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQTPE	Homo sapiens
2139	190749	G Protein-Coupled Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQTPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQTPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDNSTINLSLSTRVTLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRHRSSYFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLIKIVTLMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFSEWYLATSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINIYWSLWKRDHLRRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSVLHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPKGTGTVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMVKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	481	TEVPDSAGTSNTHTSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	523	MSLAKRVMITGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	525	LHFIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPRL2)	NP_038475.1	1658	DELLEAPGDLETLRLQQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLDGLEDVLRGLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVVGVSIPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SGIRKLKTESEMIHLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGQLQDGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVLNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRITKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRRLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRRGGG	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMLFGKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RVLJAKEQARLISDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEIYWKHVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNINWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRRSVRSVLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLYSYG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVSV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSYVTRGVGKVPR	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPFKTSNPKNLLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDAAVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TLTSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSISCSIEHQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQPILKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSFTTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLILWIKDSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQIQSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	QQDTSSKTTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3	AAK15076.1	1666	RDVESKVLKALDPEQK	Homo sapiens
2203	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1667	KIQNDSVAIETQAITDNC	Homo sapiens
2204	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1668	CSEERKTFNLNVQMNSMDIR	Homo sapiens
2205	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1669	EEMDKKDDQVYLNQVVSAA	Homo sapiens
2206	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1670	SKSVTLTFQHVVKMTPSTK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3	CAC21687.1	2142	CLLLPTAVIVFSVVKIIAK	Homo sapiens
2208	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGLKATKKKSLEG	Homo sapiens
2210	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RLHTVTVRKSSAVLE	Homo sapiens
2211	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSVVKIIAKV	Homo sapiens
2212	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQLREVLTGHTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQTWGSERRRLGDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRQSARNSRGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTVVL	Homo sapiens
2217	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHHFMVDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEEAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CPRPSSSHKEAYSERPGGLL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRLPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDIDIKTKELIVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTIKWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADTLP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLAMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDQASASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KKDYQYPKSLDILSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGIDINNIDFNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SGNGNNPQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNIFLRSPLTHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQVRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIQRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1849	TIIRSRKKTVPDIYC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1907	RRATEKEINNMGNTLKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2089	CRIGDTSQVMPPLIVA	Homo sapiens
2244	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2094	TVSSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2095	CSLKPQPGHKTQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2096	CISVANFSQSDGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSEATNSSNRVFVYC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MrgX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPESQVGDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFEEAYARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPSKVC	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKDLPENYNEAK	Homo sapiens
2265	194904	WO0034334-hFB41A	LR114	2011	SDYDMPLEDEDEDVINS	Homo sapiens
2266	194904	WO0034334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHRLLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNGSFPSKLRMLMKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAGDAPLPSLEGANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQITTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGAILDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	QETLPTLQPNQNMNTSEERQIR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNGECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITIVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIAKIETSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KULSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFL	Homo sapiens
2286	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2728	LINISHLIRKILVS	Homo sapiens
2288	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSQETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMEKDLTYSSVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpha Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpha Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpha Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed



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365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpha Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpha Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

505	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpa Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpa Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpa Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman